



Aggregate Facility Study SPP-2014-AG1-AFS-3

12/12/2014

SPP Engineering, SPP Transmission Service Studies



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Executive Summary

Pursuant to Attachment Z1 of the Southwest Power Pool, Inc. (SPP) Open Access Transmission Tariff (OATT), 5160 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 \$12 million. Additionally, \$32 million 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 \$2 million.

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 December 12, 2014. 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 December 27, 2014, 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.

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.

Introduction

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.
- All requests for long-term transmission service with a signed study agreement received before June 1, 2014 for 2014-AG1 have been included in this first Aggregate Transmission Service Study (ATSS) of 2014.

. The results of the AFS are detailed in Tables 1 through 7. 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 lists costs allocated per request for Service Upgrades assigned in this AFS.

By taking the transmission service subject to interim redispatch, the Transmission Customer agrees to provide interim redispatch. Once the Transmission Provider identifies the possible redispatch pairs, the Transmission Customer can enter into bilateral agreements to provide redispatch. Should the need to implement redispatch arise in order to maintain Network reliability, it is up to the Transmission Customer to contact parties with whom they have entered into redispatch agreements to implement that service. Such redispatch shall occur in advance of curtailment of other firm reservations impacting these constraints. In the absence of implementation of interim redispatch as requested by the Transmission Provider for Transmission Customer transactions resulting in overloads on limiting facilities, the Transmission Provider shall curtail the Transmission Customers schedule.

Financial Analysis

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, 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.

Third-Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total 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

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 consistent with current SPP Criteria and NERC Reliability Standard Requirements. 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 AECL, 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 nine seasonal models to study the aggregate transfers over a variety of requested service periods. The following SPP Transmission Expansion Plan 2014 Build 1 Cases were used to study the impact of the requested service on the transmission system:

- 2014/15 Winter Peak (14WP)
- 2015 Summer Peak (15SP)
- 2015/16 Winter Peak (15WP)
- 2016 Summer Peak (16SP)
- 2016/17 Winter Peak (16WP)
- 2020 Summer Peak (20SP)
- 2020/21 Winter Peak (20WP)
- 2025 Summer Peak (25SP)
- 2025/26 Winter Peak (25WP)

The Summer Peak models apply to June through September 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 to model the requested service. From the seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2014 Series Cases. Scenario 5 includes transmission service not already included in the SPP 2014 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 1st-Tier) and voltage threshold (0.02 change) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

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 curtailment of existing confirmed service or interim redispatch of units to provide service prior to completion of any assigned Network Upgrades. Any redispatch may not unduly discriminate between the Transmission Owners' use of the Transmission System on behalf of their Native Load Customers and any Transmission Customer's use of the Transmission System to serve its designated load. Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned Network Upgrades. Curtailment of existing confirmed service is evaluated to provide only interim service. Curtailment of existing confirmed service is only evaluated at the request of the transmission Customer.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit.

Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). Relief pairs from the generation shift factors for the incremental and decremental units with a greater than 3% TDF on the limiting constraint were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. If the aggregate redispatch amount for the potential relief pair was determined to be three times greater than the lower of the increment or decrement, then the pair was determined not to be feasible and is not included. 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.

The Aggregate Study analyzes the most probable contingencies and does not account for every situation that may be encountered in real-time operation. Because of this, it is possible that the customer may be curtailed under certain system conditions to allow system operators to maintain the reliability of the transmission network.

Study Results

Study Analysis Results

Tables 1 through 7 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), 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. MW amounts listed for redispatch are maximum values observed in a long term study and may only be available in a reduced amount or unavailable at any given time.

Table 7 lists costs allocated per request for Service Upgrades assigned in this AFS.

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.

Conclusion

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

The Transmission Provider will tender a Letter of Intent on December 12, 2014. 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 December 27, 2014, 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.

Appendix A

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
AECC	AG1-2014-018	79744195	EES	CSWS	9	6/1/2018	6/1/2023	6/1/2018	6/1/2023	6/1/2018	6/1/2023	0	25SP
CHAN	AG1-2014-036	79776973	SPA	WR	2	12/1/2014	12/1/2019	6/1/2018	6/1/2023	6/1/2018	6/1/2023	0	15SP
CRGL	AG1-2014-039	79778660	NPPD	EES	100	1/1/2016	1/1/2021	1/1/2016	1/1/2021	1/1/2016	1/1/2021	0	16SP
CRGL	AG1-2014-040	79778715	NPPD	EES	100	1/1/2016	1/1/2021	1/1/2016	1/1/2021	1/1/2016	1/1/2021	0	16SP
CRGL	AG1-2014-041	79778716	NPPD	EES	50	1/1/2016	1/1/2021	1/1/2016	1/1/2021	1/1/2016	1/1/2021	0	16SP
CRGL	AG1-2014-042	79778812	OKGE	EES	200	1/1/2016	1/1/2021	3/1/2021	3/1/2026	1/1/2016	1/1/2021	0	16SP
CRGL	AG1-2014-043	79778860	OKGE	EES	100	1/1/2016	1/1/2021	3/1/2021	3/1/2026	1/1/2016	1/1/2021	0	16SP
CRGL	AG1-2014-044	79778862	OKGE	EES	50	1/1/2016	1/1/2021	3/1/2021	3/1/2026	1/1/2016	1/1/2021	0	16SP
ETEC	AG1-2014-027	79775026	CSWS	CSWS	1178	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-028	79775032	CSWS	CSWS	79	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-029	79775043	CSWS	CSWS	550	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-030	79775047	EES	CSWS	30	1/1/2015	1/1/2020	5/1/2015	5/1/2020	5/1/2015	5/1/2020	0	15SP
ETEC	AG1-2014-031	79775056	CSWS	CSWS	378	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-032	79775058	CLEC	CSWS	38	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-033	79775062	SPA	CSWS	128	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-034	79775065	SPA	CSWS	1	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
ETEC	AG1-2014-035	79775091	CSWS	CSWS	52	1/1/2015	1/1/2040	5/1/2015	5/1/2040	5/1/2015	5/1/2040	0	15SP
GRDX	AG1-2014-016	79734977	GRDA	GRDA	110	4/1/2017	4/1/2022	4/1/2017	4/1/2022	4/1/2017	4/1/2022	0	20SP
GRDX	AG1-2014-017	79735001	GRDA	GRDA	385	4/1/2017	4/1/2022	6/1/2018	6/1/2023	4/1/2017	4/1/2022	0	20SP
GRDX	AG1-2014-020	79772133	OKGE	GRDA	70	1/1/2016	1/1/2021	1/1/2016	1/1/2021	1/1/2016	1/1/2021	0	16SP
GRDX	AG1-2014-021	79773177	OKGE	GRDA	50	10/1/2015	10/1/2020	10/1/2015	10/1/2020	10/1/2015	10/1/2020	0	16SP
GRDX	AG1-2014-022	79773246	OKGE	GRDA	30	10/1/2015	10/1/2020	10/1/2015	10/1/2020	10/1/2015	10/1/2020	0	16SP
GSECGS	AG1-2014-004	79247189	OKGE	SPS	100	12/1/2014	12/1/2034	3/1/2021	3/1/2041	6/1/2018	6/1/2038	0	15SP
KCPS	AG1-2014-005	79385758	WR	KCPL	101	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KCPS	AG1-2014-006	79385763	WR	KCPL	51	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KCPS	AG1-2014-007	79385767	WR	KCPL	50	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KCPS	AG1-2014-008	79386118	MPS	KCPL	50	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KCPS	AG1-2014-009	79386121	MPS	KCPL	51	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KCPS	AG1-2014-010	79386125	MPS	KCPL	101	7/1/2015	1/1/2036	7/1/2015	1/1/2036	7/1/2015	1/1/2036	0	16SP
KMEA	AG1-2014-015	79729929	SECI	SECI	10	1/1/2015	1/1/2020	5/1/2015	5/1/2020	5/1/2015	5/1/2020	0	15SP
NMEC	AG1-2014-014	79702349	NPPD	WR	1	12/1/2014	10/1/2024	5/1/2015	3/1/2025	5/1/2015	3/1/2025	0	15SP
NPPM	AG1-2014-019	79768713	NPPD	NPPD	75	12/1/2014	12/1/2024	6/1/2018	6/1/2028	6/1/2018	6/1/2028	0	15SP
NPPM	AG1-2014-038	79778203	NPPD	NPPD	89	11/1/2015	11/1/2030	6/1/2018	6/1/2033	6/1/2018	6/1/2033	0	16SP
OMPA	AG1-2014-003	79164464	CSWS	OKGE	50	10/1/2018	10/1/2024	3/1/2021	3/1/2027	10/1/2018	10/1/2024	0	25SP
PSCM	AG1-2014-012	79512345	SPS	LAM345	101	6/1/2018	6/1/2023	6/1/2018	6/1/2023	Note 4	Note 4	0	25SP
PSCM	AG1-2014-013	79512393	SPS	LAM345	101	6/1/2018	6/1/2023	6/1/2018	6/1/2023	Note 4	Note 4	0	25SP
SPSM	AG1-2014-024	79774645	SPS	SPS	177	6/1/2018	6/1/2038	6/1/2020	6/1/2040	6/1/2020	6/1/2040	0	25SP
SPSM	AG1-2014-025	79774647	SPS	SPS	62	6/1/2018	6/1/2038	6/1/2020	6/1/2040	6/1/2020	6/1/2040	0	25SP
WFEC	AG1-2014-001	78997137	OKGE	WFEC	100	6/1/2015	6/1/2035	3/1/2021	3/1/2041	6/1/2015	6/1/2035	0	15SP
WRGS	AG1-2014-002	79147640	OKGE	WR	200	10/1/2015	10/1/2035	6/1/2017	6/1/2037	10/1/2015	10/1/2035	0	16SP

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

Note 4: Transmission customer did not select "remain in the study using interim redispach" option.

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	Notes	⁴ Additional Engineering and Construction Cost for 3rd Party Upgrades	³ ⁵ Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	⁴ Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
AECC	AG1-2014-018	79744195	\$ 1,243,225	\$ -	\$ 1,243,225		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
CHAN	AG1-2014-036	79776973	\$ -	\$ -	\$ -		\$ 18,534,510	\$ -	\$ -	Schedule 9 & 11 Charges
CRGL	AG1-2014-039	79778660	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 7,065,600	\$ 7,065,600
CRGL	AG1-2014-040	79778715	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 7,065,600	\$ 7,065,600
CRGL	AG1-2014-041	79778716	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 3,532,800	\$ 3,532,800
CRGL	AG1-2014-042	79778812	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 14,131,200	\$ 14,131,200
CRGL	AG1-2014-043	79778860	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 7,065,600	\$ 7,065,600
CRGL	AG1-2014-044	79778862	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 3,532,800	\$ 3,532,800
ETEC	AG1-2014-027	79775026	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-028	79775032	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-029	79775043	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-030	79775047	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-031	79775056	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-032	79775058	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-033	79775062	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-034	79775065	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
ETEC	AG1-2014-035	79775091	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
GRDX	AG1-2014-016	79734977	\$ 14,056	\$ -	\$ 14,056	7	\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
GRDX	AG1-2014-017	79735001	\$ 49,195	\$ -	\$ 49,195	7	\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
GRDX	AG1-2014-020	79772133	\$ 50,951	\$ 50,951	\$ -	7	\$ -	\$ 83,941	\$ -	\$ 83,941
GRDX	AG1-2014-021	79773177	\$ 33,861	\$ 33,861	\$ -	7	\$ -	\$ 54,516	\$ -	\$ 54,516
GRDX	AG1-2014-022	79773246	\$ 20,317	\$ 20,317	\$ -	7	\$ -	\$ 32,710	\$ -	\$ 32,710
GSECGS	AG1-2014-004	79247189	\$ 255,665	\$ -	\$ 255,665		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-005	79385758	\$ 94,751	\$ -	\$ 94,751		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-006	79385763	\$ 47,845	\$ -	\$ 47,845		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-007	79385767	\$ 46,907	\$ -	\$ 46,907		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-008	79386118	\$ 43,157	\$ -	\$ 43,157		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-009	79386121	\$ 44,020	\$ -	\$ 44,020		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2014-010	79386125	\$ 87,178	\$ -	\$ 87,178		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KMEA	AG1-2014-015	79729929	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
NMEC	AG1-2014-014	79702349	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
NPPM	AG1-2014-019	79768713	\$ 31,142	\$ -	\$ 31,142		\$ 6,621,447	\$ -	\$ -	Schedule 9 & 11 Charges
NPPM	AG1-2014-038	79778203	\$ -	\$ -	\$ -		\$ 6,717,378	\$ -	\$ -	Schedule 9 & 11 Charges
OMPA	AG1-2014-003	79164464	\$ 9,789,775	\$ 789,775	\$ 9,000,000		\$ -	\$ 1,442,529	\$ -	\$ 1,442,529
PSCM	AG1-2014-012	79512345	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ 12,429,060	\$ 12,429,060
PSCM	AG1-2014-013	79512393	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ 12,429,060	\$ 12,429,060
SPSM	AG1-2014-024	79774645	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
SPSM	AG1-2014-025	79774647	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
WFEC	AG1-2014-001	78997137	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
WRGS	AG1-2014-002	79147640	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
Grand Total			\$11,852,045		\$10,957,141			\$ 1,613,696		

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

<p>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.</p>
<p>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.</p>
<p>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.</p>
<p>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.</p>
<p>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.</p>
<p>Note 6: Mutually exclusive requests: 79512345 and 79512393. System impacts were identified by only modeling mutually exclusive request 79512393.</p>
<p>Note 7: Reservation may be eligible for Base Plan Funding subject to resolution of all pending requests.</p>

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

Customer Study Number
AECC AG1-2014-018

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
AECC	79744195	EES	CSWS	9	6/1/2018	6/1/2021	6/1/2018	6/1/2021	\$ 1,243,225	\$ -	\$ 1,243,225	\$ 2,134,501
Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79744195	BROKEN ARROW NORTH - SOUTH TAP - LYNN LANE TAP 138KV CKT 1	6/1/2021	6/1/2021			\$ 1,243,225	\$ 11,033,000	\$ 2,134,501				
						Total	\$ 1,243,225	\$ 11,033,000	\$ 2,134,501			

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
79744195	BANK - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	MCHAB 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		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	**Total E & C Cost
79744195	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1 AECC	6/1/2021	6/1/2021			\$ -	\$ -
						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
 CHAN AG1-2014-036

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
Customer	79776973	SFA	WR		12/1/2014	12/1/2015	6/1/2018	6/1/2023	\$	- \$	- \$	- \$
CHAN									\$	- \$	- \$	- \$

Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79776973	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	EDC	Earliest Start Date	Redispatch Available
79776973	Butler - Weaver 138KV CKT 1 #2	6/1/2016	6/1/2018		

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

Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispatch Available
79776973	BEARING 138KV Capacitor	6/1/2012	6/1/2012		
	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		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	**Total E & C Cost
79776973	BULL SHOALS - MIDWAY (VVEPA) 161KV CKT 1	6/1/2017	6/1/2017			\$ 18,534,510	\$ 18,534,510
						Total	\$ 18,534,510

*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
 CKGL AG1-2014-039

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
CKGL	79778660	NPPD	ESS	100	1/1/2016	1/1/2021	1/1/2016	1/1/2021	\$	- \$ 7,065,600	\$	- \$
									\$	- \$ 7,065,600	\$	- \$

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
79778660	None					\$	- \$	- \$	\$	- \$
					Total	\$	- \$	- \$	\$	- \$

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
79778660	HUGO POWER PLANT - VALLIANT 345 KV AEPW		7/1/2012	7/1/2012	
	HUGO POWER PLANT - VALLIANT 345KV CRT 1 WFEC		7/1/2012	7/1/2012	
	LACYGNE - WEST GARDNER 345KV CRT 1		6/1/2006	6/1/2006	
	NORTHWEST - TATONGA 345KV CRT 1		1/1/2010	1/1/2010	
	TATONGA - WOODWARD 345KV CRT 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
 CKGL AG1-2014-040

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
CKGL	79778715	NPPD	ESS	100	1/1/2016	1/1/2021	1/1/2016	1/1/2021	\$	- \$ 7,065,600	\$	- \$

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
79778715	None					\$	- \$	- \$	\$	- \$
					Total	\$	- \$	- \$	\$	- \$

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
79778715	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CRT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CRT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CRT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CRT 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
 CKGL AG1-2014-041

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
CKGL	79778716	NPPD	ESS	50	1/1/2016	1/1/2021	1/1/2016	1/1/2021	\$	- \$ 3,532,800	- \$	- \$

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
79778716	None					\$ -	\$ -	\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -	\$ -	\$ -

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
79778716	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CRT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CRT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CRT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CRT 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
 CKGL AG1-2014-042

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CKGL	79778812	CKGE	ESS	200	1/1/2016	1/1/2021	3/1/2021	3/1/2026	\$	\$ - 14,131,200	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79778812	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	Redispach Available
79778812	Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron 345 kv			10/1/2015	3/1/2021

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	Redispach Available
79778812	HUGO POWER PLANT - VALLIANT 345 KV AEPW			7/1/2012	7/1/2012
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFECC			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
	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
 CKGL AG1-2014-043

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CKGL	79778860	CKGE	ESS	100	1/1/2016	1/1/2021	3/1/2021	3/1/2026	\$	- \$ 7,065,600	- \$	- \$

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
79778860	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
79778860	Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron 345 kv			3/1/2021	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
79778860	HUGO POWER PLANT - VALLIANT 345 KV AEPW			7/1/2012	7/1/2012
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFECC			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
	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
 CKGL AG1-2014-044

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CKGL	79778862	CKGE	ESS	50	1/1/2016	1/1/2021	3/1/2021	3/1/2026	\$	- \$ 3,532,800	\$	- \$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79778862	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	Redispach Available
79778862	Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron 345 kv	10/1/2015	3/1/2021		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	Redispach Available
79778862	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFECC	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		
	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
 ETEC AG1-2014-027

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775026	CSWS	CSWS	1178	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775026	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
 ETEC AG1-2014-028

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775032	CSWS	CSWS	79	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775032	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
 ETEC AG1-2014-029

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775043	CSWS	CSWS	\$50	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775043	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
 ETEC AG1-2014-030

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775047	EES	CSWS	30	1/1/2015	1/1/2020	3/1/2015	3/1/2020	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775047	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
 ETEC AG1-2014-031

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775056	CSWS	CSWS	378	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775056	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
 ETEC AG1-2014-032

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775058	CLEC	CSWS	38	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775058	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
 ETEC AG1-2014-033

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775062	SPA	CSWS	128	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775062	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
 ETEC AG1-2014-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775065	SPA	CSWS	1	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775065	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
 ETEC AG1-2014-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	79775091	CSWS	CSWS	\$2	1/1/2015	1/1/2040	3/1/2015	3/1/2040	\$	\$	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79775091	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
GRDX AG1-2014-016

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
GRDX	79734977	GRDA	GRDA	110	4/1/2017	4/1/2021	4/1/2017	4/1/2021	\$ 14,056	\$ -	\$ 14,056	\$ 17,924

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79734977	HOLOGAN 138.00 - NORTHEAST STATION 138KV CKT 1 AEPW	6/1/2021	6/1/2021			\$ 14,056	\$ 63,251	\$ 17,924
Total						\$ 14,056	\$ 63,251	\$ 17,924

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
79734977	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	6/1/2021	6/1/2021		
	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131.	6/1/2016	TBD		
	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	6/1/2017	TBD		

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
GRDX AG1-2014-017

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
GRDX	79735001	GRDA	GRDA	385	4/1/2017	4/1/2021	6/1/2018	6/1/2021	\$ 49,195	\$ -	\$ 49,195	\$ 62,732

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79735001	400LOGAN 138.00 - NORTHEAST STATION 138KV CKT 1 AEPW	6/1/2021	6/1/2021			\$ 49,195	\$ 63,251	\$ 62,732
Total						\$ 49,195	\$ 63,251	\$ 62,732

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
79735001	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	6/1/2021	6/1/2021		
	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131.	6/1/2016	TBD		
	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	6/1/2017	TBD		Yes

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
GRDX AG1-2014-020

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
GRDX	79772133	OKGE	GRDA	70	1/1/2016	1/1/2021	1/1/2016	1/1/2021	\$	\$	50,951	83,941
									\$	\$	50,951	83,941

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
79772133	HANCOCK - MUSKOGEE 161KV CRT 1 Accelerate	6/1/2016	6/1/2016			\$	\$	50,951	50,951	105,129
						\$	\$	50,951	50,951	105,129
	Total					\$	\$	50,951	50,951	105,129

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
79772133	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131	6/1/2016			
	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	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
79772133	NORTHWEST - TATONGA 345KV CRT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CRT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 3 BRV CRT 1	1/1/2010	1/1/2010		
	WOODWARD - 45/2 38KV TRANSFORMER CRT 1	1/1/2010	1/1/2010		

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
GRDX AG1-2014-021

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
GRDX	79773177	OKGE	GRDA	50	10/1/2015	10/1/2020	10/1/2015	10/1/2020	\$	-	\$	\$4,516
									\$	-	\$	\$4,516

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind Cost	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79773177	HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	6/1/2016	6/1/2016			\$	\$	\$33,861	\$33,861	\$4,516
						\$	\$	\$33,861	\$33,861	\$4,516
						\$	\$	\$33,861	\$33,861	\$4,516

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
79773177	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131.	6/1/2016			
	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	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
79773177	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.

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
GRDX AG1-2014-022

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
GRDX	79773246	OKGE	GRDA	30	10/1/2015	10/1/2020	10/1/2015	10/1/2020	\$ -	\$ -	\$ 20,317	\$ 32,710

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
79773246	HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	6/1/2016	6/1/2016			\$ -	\$ 20,317	\$ 20,317	\$ 105,129	\$ 32,710
	Total					\$ -	\$ 20,317	\$ 20,317	\$ 105,129	\$ 32,710

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
79773246	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131	6/1/2016		TBD	
	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	6/1/2017		TBD	

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
79773246	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.

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
GSECGS AG1-2014-004

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
GSECGS	79247189	OR	2015	100	12/1/2014	12/1/2034	3/1/2021	3/1/2021	\$ 255,665	\$ -	\$ 255,665	\$ 934,222

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
79247189	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 Accelerate	6/1/2016	6/1/2016			\$ 255,665	\$ -	\$ 255,665	\$ 255,665	\$ 934,222	
						Total		\$ 255,665	\$ -	\$ 255,665	\$ 934,222

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	Redispach Available
79247189	CANYON EAST SUB - CANYON WEST SUB 115KV CKT 1	6/1/2015	5/1/2016		Yes
	CANYON EAST SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	6/1/2015	5/1/2016		Yes
	CARLSLE INTERCHANGE (WH XHS70711) 230/115/13.2KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		
	SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		

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	Redispach Available
79247189	Andrews - Battle Ave 345 KV Ckt 1	6/1/2017	6/1/2020		
	Andrews - Hobbs 345 KV Ckt 1 Voltage Conversion	6/1/2017	6/1/2020		
	Andrews 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		
	Battle Ave - China Draw 345 KV Ckt 1	6/1/2017	6/1/2020		
	Battle Ave - Road Runner 345 KV Ckt 1	6/1/2017	6/1/2020		
	Battle Ave 345 KV Ckt 1 Terminal Upgrades	6/1/2017	6/1/2020		
	Battle Ave 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		
	China Draw 345 KV Ckt 1 Terminal Upgrades #2 (Battle Ave)	6/1/2017	6/1/2020		
	Multi - Bailey Co. - Lamb Co. 115 KV	6/1/2015	6/1/2018		No
	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 KV	10/1/2015	3/1/2021		Yes
	Solution(s) for 2015TPNT-RON0206 and 2015TP10-RON1462	6/1/2018	TBD		Yes
	Solution(s) for 2015TPNT-RON0207 and 2015TP10-RON1463	6/1/2015	TBD		
	Solution(s) for 2015TPNT-RON0208, 2015TPNT-RON0209, 2015TPNT-RON0210, 2015TPNT-RON0211, 2015TPNT-RON0212, 2015TPNT-RON0213, 2015TP10-RON1458, and 2015TP10-RON1459	6/1/2021	TBD		
	Solution(s) for 2015TPNT-RON0214, 2015TPNT-RON0215, 2015TPNT-RON0216, 2015TPNT-RON0217, 2015TPNT-RON0218, 2015TPNT-RON0219, 2015TPNT-RON0220, 2015TPNT-RON0221, 2015TP10-RON1460, and 2015TP10-RON1461	6/1/2021	TBD		
	Solution(s) for 2015TPNT-RON0231, 2015TPNT-RON0243, 2015TP10-RON1462, and 2015TP10-RON1463	6/1/2017	TBD		

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	Redispach Available
79247189	Mustang to Shell CO2 115 KV	6/1/2016	6/1/2017		Yes
	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1 Acceleration	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	Redispach Available
79247189	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.

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispach is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

***Multi-Bailey - Lamb 115KV NTC is being re-evaluated.

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

Customer Study Number
 KCPS AG1-2014-005

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
KCPS	79385758	WR	KCPL	101	7/1/2015	1/1/2036	7/1/2015	1/1/2036	\$ 94,751	\$ -	\$ 94,751	\$ 267,427
									\$ 94,751	\$ -	\$ 94,751	\$ 267,427

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
79385758	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 94,751	\$ -	\$ 94,751	\$ 395,000	\$ 267,427
						\$ 94,751	\$ -	\$ 94,751	\$ 395,000	\$ 267,427

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
79385758	EASTOWN7 - 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		
	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
 KCPS AG1-2014-006

Customer	Reservation	POR YR	POD YR	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	79385763			51	7/1/2015	1/1/2036	7/1/2015	1/1/2036	47,845	\$	47,845	135,039
									\$	47,845	\$	135,039

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
79385763	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 47,845	\$	\$ 47,845	\$ 395,000	\$ 135,039
						\$ 47,845	\$	\$ 47,845	\$ 395,000	\$ 135,039

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
79385763	EASTOWN7 - 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		
	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
 KCPS AG1-2014-007

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
KCPS	79385767	WR	KCPL	50	7/1/2015	1/1/2036	7/1/2015	1/1/2036	\$ 46,907	\$ -	\$ 46,907	\$ 132,391
									\$ 46,907	\$ -	\$ 46,907	\$ 132,391

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
79385767	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 46,907	\$ -	\$ 46,907	\$ 395,000	\$ 132,391
						\$ 46,907	\$ -	\$ 46,907	\$ 395,000	\$ 132,391

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
79385767	EASTOWN7 - 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		
	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
 KCPS AG1-2014-008

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
KCPS	79386118	MPS	KCPL	50	7/1/2015	1/1/2036	7/1/2015	1/1/2036	\$ 43,157	\$ -	\$ 43,157	\$ 121,807
									\$ 43,157	\$ -	\$ 43,157	\$ 121,807

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
79386118	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 43,157	\$ -	\$ 43,157	\$ 395,000	\$ 121,807
						\$ 43,157	\$ -	\$ 43,157	\$ 395,000	\$ 121,807

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
79386118	EASTOWN? 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		

*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 AG1-2014-009

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	79386121	MPS	KCPL	51	7/1/2015	1/1/2036	7/1/2015	1/1/2036	\$ 44,020	\$ -	\$ 44,020	\$ 124,243
									\$ 44,020	\$ -	\$ 44,020	\$ 124,243

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
79386121	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 44,020	\$ -	\$ 44,020	\$ 395,000	\$ 124,243
						\$ 44,020	\$ -	\$ 44,020	\$ 395,000	\$ 124,243

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
79386121	EASTOWN? 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		

*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 AG1-2014-010

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
KCPS	79386125	MPS	KCPL	101	7/1/2015	1/1/2036	7/1/2015	1/1/2036	\$ 87,178	\$ -	\$ 87,178	\$ 246,053
									\$ 87,178	\$ -	\$ 87,178	\$ 246,053

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
79386125	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2021	6/1/2021			\$ 87,178	\$ -	\$ 87,178	\$ 395,000	\$ 246,053
						\$ 87,178	\$ -	\$ 87,178	\$ 395,000	\$ 246,053

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
79386125	EASTOWN? 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	5/1/2014	5/1/2014		

*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
 KMEA AG1-2014-015

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
KMEA	79729929	SEC	SEC	10	1/1/2015	1/1/2020	3/1/2015	3/1/2020	\$	\$	\$	\$

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
79729929	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
79729929	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	6/1/2015	6/1/2018		
	CUDAHY - KISMET 3 115.00 115KV CKT 1	6/1/2015	6/1/2018		

*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
NMEC AG1-2014-014

Customer	Reservation	79702349	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
NMEC			NPPD	WR	1	12/1/2014	10/1/2024	3/1/2015	3/1/2025	\$	\$	\$	\$

Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79702349	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	EDC	Earliest Start Date	Redispatch Available
79702349	BENTON 138kV Terminal Equipment	6/1/2006		6/1/2017	
	BPA - CITY OF MCPHERSON PLANT - WEST MCPHERSON 115KV CKT 1	6/1/2021		6/1/2021	
	Multi - Viola 345/138kV Transformer and 138 kV Lines to Clearwater and Gill	10/1/2015		6/1/2017	

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

Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispatch Available
79702349	CIRCLE - RICE CO 230KV CKT 1	10/1/2012		11/15/2012	
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011		6/1/2013	
	GREENLEAF - KNOB HILL 115KV CKT 1 MMEC	6/1/2013		6/1/2013	
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006		6/1/2006	
	LYONS - RICE CO 115KV CKT 1	10/1/2012		4/1/2013	
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012		7/15/2013	
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012		7/15/2013	
	RICE CO 230/115KV TRANSFORMER CKT 1	10/1/2012		11/15/2012	

*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 AG1-2014-019

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
NPPM	79768713	NPPD	NPPD	75	12/1/2014	12/1/2024	6/1/2018	6/1/2028	\$ 31,142	\$ -	\$ 31,142	\$ 80,165
									\$ 31,142	\$ -	\$ 31,142	\$ 80,165

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
79768713	SWISSVALE - WEST GARDNER 345KV CRT 1 WERE	6/1/2021	6/1/2021			\$ 31,142	\$ -	\$ 31,142	\$ 395,000	\$ 80,165
						\$ 31,142	\$ -	\$ 31,142	\$ 395,000	\$ 80,165
						\$ 31,142	\$ -	\$ 31,142	\$ 395,000	\$ 80,165

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
79768713	CUFTON - GREENLEAF 115KV CRT 1	6/1/2011	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CRT 1 MNEC	6/1/2013	6/1/2013		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
79768713	RANDAL - SPENCER 115KV CRT 1	6/1/2016	6/1/2016		No	\$ 4,784,867	\$ 9,985,080
	SUB C - SUB E 115KV CRT 1	6/1/2016	6/1/2016			\$ 1,836,580	\$ 3,251,745
						\$ 6,621,447	\$ 13,336,825

*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 AG1-2014-038

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
NPPM	79778203	NPPD	NPPD	89	11/1/2015	11/1/2030	6/1/2018	6/1/2033	\$	\$	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind Cost	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79778203	None					\$	\$	\$	\$	\$
					Total	\$	\$	\$	\$	\$

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	**Total E & C Cost
79778203	FT RANDAL - SPENCER 115KV CKT 1	6/1/2016	6/1/2018		No	\$ 5,200,213	\$ 9,985,080
	SUB C - SUB E 115KV CKT 1	6/1/2016	6/1/2016			\$ 1,517,165	\$ 3,353,745
					Total	\$ 6,717,378	\$ 13,338,825

*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
 OMPA AG1-2014-003

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
Customer OMPA	79164464	CSWS	OKGE	50	10/1/2018	10/1/2024	3/1/2021	3/1/2027	\$ 9,000,000	\$	\$ 9,789,775	\$ 17,881,084
									\$ 9,000,000	\$	\$ 9,789,775	\$ 17,881,084

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79164464	BROKEN ARROW NORTH - SOUTH TAP - LYNN LANE TAP 138KV CKT 1	6/1/2021	6/1/2021			\$ 9,789,775	\$ 11,033,000	\$ 17,881,084
						\$ 9,789,775	\$ 11,033,000	\$ 17,881,084

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
79164464	Multi - Woodward District EHV - Tatonga - Matthewsom - Cimarron 345 KV	10/1/2015	3/1/2021		Yes
	OMPA-MARLOW - BUSH SPRINGS TAP 138KV CKT 1	6/1/2021	6/1/2021		

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
79164464	BEELINE - EXPLORER GLENPOOL TAP 138KV CKT 1	6/1/2009	6/1/2009		
	CANTON - TALOGA 69KV CKT 1	6/1/2011	6/1/2013		
	EXPLORER GLENPOOL TAP - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL TAP - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	KNOBHILL (KNOBHILL) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	10/1/2010	6/1/2011		
	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
PSCM AG1-2014-012

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
PSCM	79512345	SPS	JAM345	101	6/1/2018	6/1/2023	6/1/2018	6/1/2023	\$	\$ 12,429,060	\$	\$
Reservation	Upgrade Name	DUN	EDC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements				
79512345	None				\$	\$	\$	\$				
					Total	\$	\$	\$				

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

**Mutually exclusive requests: 79512345 and 79512393. System impacts and Cost Allocation were identified by modeling mutually exclusive request 79512393.

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

Customer Study Number
PSCM AG1-2014-013

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
PSCM	79512393	SFS	JAN345	101	6/1/2018	6/1/2021	6/1/2018	6/1/2021	\$	\$ - 12,429,060	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79512393	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
79512393	Andrews - Battle Ave 345 KV Ckt 1	6/1/2017	6/1/2020		
	Andrews - Hobbs 345 KV Ckt 1 Voltage Conversion	6/1/2017	6/1/2020		
	Andrews 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		
	Battle Ave - China Draw 345 KV Ckt 1	6/1/2017	6/1/2020		
	Battle Ave - Road Runner 345 KV Ckt 1	6/1/2017	6/1/2020		
	Battle Ave 345 KV Ckt 1 Terminal Upgrades	6/1/2017	6/1/2020		
	Battle Ave 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		
	China Draw 345 KV Ckt 1 Terminal Upgrades #2 (Battle Ave)	6/1/2017	6/1/2020		
	Solution(s) for 2015/TPNT-RVN0461, 2015/TPNT-RVN0487, 2015/TPNT-RVN0513, 2015/TPNT-RVN1210, 2015/TPNT-RVN1245, 2015/TPNT-RVN1248, 2015/TPNT-RVN1268, 2015/TPNT-RVN1317, 2015/TPNT-RVN1339, and 2015/TPNT-RVN1365.	6/1/2018	TBD		

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
79512393	HUGO POWER PLANT - VALLIANT 345 KV ASPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV Ckt 1 WFEC	7/1/2012	7/1/2012		

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
SPSM AG1-2014-024

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	79774645	SFS	SFS	177	6/1/2018	6/1/2038	6/1/2038	6/1/2038	\$	-	\$	-

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79774645	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	Redispach Available
79774645	Andrews - Battle Ave 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Andrews - Hobbs 345 KV Ckt 1 Voltage Conversion	6/1/2017	6/1/2020		No
	Andrews 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		No
	Battle Ave - China Draw 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Battle Ave - Road Runner 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Battle Ave 345 KV Ckt 1 Terminal Upgrades	6/1/2017	6/1/2020		No
	Battle Ave 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		No
	China Draw 345 KV Ckt 1 Terminal Upgrades #2 (Battle Ave)	6/1/2017	6/1/2020		No
	Solution(s) for 2015TFPNT-RDN0305 and 2015TFPNT-RDN0307	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RDN0231, 2015TFPNT-RDN0243, 2015TFP10-RDN1462, and 2015TFP10-RDN1463	6/1/2017	TBD		
	Solution(s) for 2015TFPNT-RDN0662 and 2015TFPNT-RDN0666	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RVN061, 2015TFPNT-RVN087, 2015TFPNT-RVN0513, 2015TFPNT-RVN1210, 2015TFPNT-RVN1245, 2015TFPNT-RVN1248, 2015TFPNT-RVN1268, 2015TFPNT-RVN1317, 2015TFPNT-RVN1339, and 2015TFPNT-RVN1365	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RVN1542, 2015TFPNT-RVN1553, 2015TFPNT-RVN1560, 2015TFPNT-RVN1637, 2015TFPNT-RVN1646, 2015TFPNT-RVN1648, 2015TFPNT-RVN1654, 2015TFPNT-RVN1666, 2015TFPNT-RVN1675, 2015TFP10-RVN0293, 2015TFP10-RVN0294, 2015TFP10-RVN0295, 2015TFP10-RVN0296, 2015TFP10-RVN0297, 2015TFP10-RVN0298, 2015TFP10-RVN0299, 2015TFP10-RVN0300, 2015TFP10-RVN0301, 2015TFP10-RVN0302, 2015TFP10-RVN0304, 2015TFP10-RVN0305, 2015TFP10-RVN0346, 2015TFP10-RVN0347, 2015TFP10-RVN0348, 2015TFP10-RVN0349, 2015TFP10-RVN0350, 2015TFP10-RVN0351, 2015TFP10-RVN0352, 2015TFP10-RVN0353, 2015TFP10-RVN0354, 2015TFP10-RVN0355, 2015TFP10-RVN0359, 2015TFP10-RVN0360, 2015TFP10-RVN0361, 2015TFP10-RVN0362, 2015TFP10-RVN0363, and 2015TFP10-RVN0364	6/1/2018	TBD		No

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	Redispach Available
79774645	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1 Acceleration	6/1/2017	6/1/2017		

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispach is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
SPSM AG1-2014-025

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
SPSM	79774647	SPS	SPS	62	6/1/2018	6/1/2038	6/1/2020	6/1/2020	\$	\$	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79774647	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
79774647	Andrews - Battle Ave 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Andrews - Hobbs 345 KV Ckt 1 Voltage Conversion	6/1/2017	6/1/2020		No
	Andrews 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		No
	Battle Ave - China Draw 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Battle Ave - Road Runner 345 KV Ckt 1	6/1/2017	6/1/2020		No
	Battle Ave 345 KV Ckt 1 Terminal Upgrades	6/1/2017	6/1/2020		No
	Battle Ave 345/115 KV Ckt 1 Transformer	6/1/2017	6/1/2020		No
	China Draw 345 KV Ckt 1 Terminal Upgrades #2 (Battle Ave)	6/1/2017	6/1/2020		No
	Solution(s) for 2015TFPNT-RDN0305 and 2015TFPNT-RDN0307	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RDN0231, 2015TFPNT-RDN0243, 2015TFP10-RDN1462, and 2015TFP10-RDN1463	6/1/2017	TBD		
	Solution(s) for 2015TFPNT-RDN0662 and 2015TFPNT-RDN0666	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RVN0661, 2015TFPNT-RVN0687, 2015TFPNT-RVN0513, 2015TFPNT-RVN1210, 2015TFPNT-RVN1245, 2015TFPNT-RVN1248, 2015TFPNT-RVN1268, 2015TFPNT-RVN1317, 2015TFPNT-RVN1339, and 2015TFPNT-RVN1365	6/1/2018	TBD		
	Solution(s) for 2015TFPNT-RVN1542, 2015TFPNT-RVN1553, 2015TFPNT-RVN1560, 2015TFPNT-RVN1637, 2015TFPNT-RVN1646, 2015TFPNT-RVN1648, 2015TFPNT-RVN1654, 2015TFPNT-RVN1666, 2015TFPNT-RVN1675, 2015TFP10-RVN0293, 2015TFP10-RVN0294, 2015TFP10-RVN0295, 2015TFP10-RVN0296, 2015TFP10-RVN0297, 2015TFP10-RVN0298, 2015TFP10-RVN0299, 2015TFP10-RVN0300, 2015TFP10-RVN0301, 2015TFP10-RVN0302, 2015TFP10-RVN0304, 2015TFP10-RVN0305, 2015TFP10-RVN0346, 2015TFP10-RVN0347, 2015TFP10-RVN0348, 2015TFP10-RVN0349, 2015TFP10-RVN0350, 2015TFP10-RVN0351, 2015TFP10-RVN0352, 2015TFP10-RVN0353, 2015TFP10-RVN0354, 2015TFP10-RVN0355, 2015TFP10-RVN0359, 2015TFP10-RVN0360, 2015TFP10-RVN0361, 2015TFP10-RVN0362, 2015TFP10-RVN0363, and 2015TFP10-RVN0364	6/1/2018	TBD		No

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
79774647	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1 Acceleration	6/1/2017	6/1/2017		

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

**Some TBD ("to be determined") Reliability Projects are required to relieve voltage limits. Since interim redispatch is not provided for voltage limits and has not been provided for TBD Reliability Projects, the request may be subject to deferral if the Estimated Date of Upgrade Completion (EOC) is determined to be greater than the Earliest Date Upgrade Required (DUN). The posted facility data contains the identified thermal limits and voltage limits associated with TBD Reliability Projects.

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

Customer Study Number
WFEC AG1-2014-001

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WFEC	78997137	OKGE	WFEC	100	6/1/2015	6/1/2035	3/1/2021	3/1/2061	\$	\$	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
78997137	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	Redispach Available
78997137	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	10/1/2015	3/1/2021		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	Redispach Available
78997137	BLUE CANYON - 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 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER 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		
	WOODWARD - ODINE 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
WRGS AG1-2014-002

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispach	Deferred Stop Date Without Redispach	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	79147640	ORGE	WR	200	10/1/2015	10/1/2035	6/1/2017	6/1/2037	\$	\$	\$	\$

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispach Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
79147640	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	Redispach Available
79147640	BENTON 138KV Terminal Equipment	6/1/2016	6/1/2017		Yes
	BPU - CITY OF MCPHERSON PLANT - WEST MCPHERSON 115KV CKT 1	6/1/2021	6/1/2021		
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	10/1/2017	10/1/2017		
	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	6/1/2016	6/1/2017		Yes
	Multi - Viola 345/138kV Transformer and 138 kV Lines to Clearwater and Gill	10/1/2015	6/1/2017		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	Redispach Available
79147640	CIRCLE - RICE CO 230KV CKT 1	10/1/2012	11/15/2012		
	LACYONE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - RICE CO 115KV CKT 1	10/1/2012	4/1/2013		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE CO 201/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	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	40OLOGAH 138.00 - NORTHEAST STATION 138KV CKT 1 AEPW	Replace Wavetrap at Northeast Station Substation	6/1/2021	6/1/2021	\$63,251.00
AEPW	BROKEN ARROW NORTH - SOUTH TAP - LYNN LANE TAP 138KV CKT 1	Rebuild 4.6264 miles with 1533.3 ACSR/TW, replace breaker and relays at Dawson	6/1/2021	6/1/2021	\$11,033,000.00
OKGE	HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	Replace Muskogee Terminal Equipment	6/1/2016	6/1/2016	\$105,129.00
SPS	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 Accelerate	Reconductor 2.24 miles to at least 171 MVA.	6/1/2016	6/1/2016	\$255,665.00
WERE	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	Replace Terminal Equipment	6/1/2021	6/1/2021	\$395,000.00

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
SPS	Mustang to Shell CO2 115 kV	Build 6.3 mile 115 kV line from Mustang to Shell CO2 Build a new 6.9 mile 115kV line between the Mustang and Shell CO2 substations.	6/1/2016	6/1/2017
SPS	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1 Acceleration	Replace 1st 230/115 kV transformer at Tuco with 230/115 kV 288 MVA transformer.	6/1/2017	6/1/2017

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

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
SPS	CANYON EAST SUB - CANYON WEST SUB 115KV CKT 1	Rebuild 3.73 mile 115 kV line.	6/1/2015	5/1/2016
SPS	CANYON EAST SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	Rebuild 13.5-mile 4/0 segment of 115 kV line from Canyon East Sub to Randall County Interchange with 795 ACSR conductor.	6/1/2015	5/1/2016
SPS	CARLISLE INTERCHANGE (WH XHS70711) 230/115/13.2KV TRANSFORMER CKT 1	Upgrade transformer to 250 MVA.	6/1/2021	6/1/2021
SPS	SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1	Increase Sundown 230/115 kV transformer to 250 MVA	6/1/2021	6/1/2021
WERE	Butler - Weaver 138kV CKT 1 #2	Rebuild the 138kV Butler to Weaver line with new poles, conductor, and shield wire. Upgrade relays at both ends to achieve 1200 amp rating.	6/1/2016	6/1/2018

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	OMPA-MARLOW - RUSH SPRINGS TAP 138KV CKT 1	Rebuild 8.59 miles with 1533.3 ACSR/TW	6/1/2021	6/1/2021
GRDA	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Upgrade the 161/69/13.8KV TRANSFORMER.	6/1/2021	6/1/2021
GRDA	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	Upgrade the 161/69/13.8KV TRANSFORMER.	6/1/2021	6/1/2021
MKEC	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	Rebuild 3.37 miles and Substation work	6/1/2015	6/1/2018
MKEC	CUDAHY - KISMET 3 115.00 115KV CKT 1	Rebuild 23.17 miles and increase terminal limits to at least 146MVA Summer Rate B.	6/1/2015	6/1/2018
OKGE	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.	10/1/2015	3/1/2021
SPS	Andrews - Battle Axe 345 kv Ckt 1	Construct new 70-mile 345 kv line from Battle Axe to Andrews. Line will be routed adjacent to Toboso Flats 115 kv substation.	6/1/2017	6/1/2020
SPS	Andrews - Hobbs 345 kv Ckt 1 Voltage Conversion	Convert existing 30.5-mile 230 kv line from Andrews to Hobbs to 345 kv. Re-terminate line on 345 kv bus at Hobbs. Ratings will be based on current conductors - bundled 795 ACSR.	6/1/2017	6/1/2020
SPS	Andrews 345/115 kv Ckt 1 Transformer	Install new 345/115 kv 448 MVA transformer at Andrews substation and remove two 230/115 kv transformers. Install any necessary 115 kv terminal equipment.	6/1/2017	6/1/2020
SPS	Battle Axe - China Draw 345 kv Ckt 1	Construct new 35-mile 345 kv line from Battle Axe to China Draw. Install 345 kv breakers and sub as needed for termination.	6/1/2017	6/1/2020
SPS	Battle Axe - Road Runner 345 kv Ckt 1	Construct new 15-mile 345 kv line from Battle Axe to Road Runner. Install 345 kv bus at Road Runner for 4 transformer or line terminations, expandable for future terminations.	6/1/2017	6/1/2020
SPS	Battle Axe 345 kv Ckt 1 Terminal Upgrades	Construct new 345 kv terminal at the Battle Axe substation. Install any necessary 345 kv terminal equipment for 4 transformer/line terminations in ring configuration expandable to future breaker and a half.	6/1/2017	6/1/2020
SPS	Battle Axe 345/115 kv Ckt 1 Transformer	Install new 345/115 kv 448 MVA transformer at new Battle Axe substation. Install any necessary 115 kv terminal equipment as expandable breaker and half design.	6/1/2017	6/1/2020
SPS	China Draw 345 kv Ckt 1 Terminal Upgrades #2 (Battle Axe)	Install 345 kv terminal at China Draw to terminate the new 345 kv line from Battle Axe. Install any necessary 345 kv terminal equipment.	6/1/2017	6/1/2020
SPS	Multi - Bailey Co. - Lamb Co. 115 kv	Build 39 Miles of 115 kv Bailey County-Lamb County and covert SPS loads from 69 kv to 115 kv. Also install 115/69 kv Ttransformer at Lamb County SandHill to serve Lamb County loads.	6/1/2015	6/1/2018
TBD	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131.	Solution(s) for 2015ITPNT-RON0114, 2015ITPNT-RON0115, 2015ITPNT-RON0116, 2015ITPNT-RON0117, 2015ITPNT-RON0118, 2015ITPNT-RON0119, 2015ITPNT-RON0120, 2015ITPNT-RON0121, 2015ITPNT-RON0122, 2015ITPNT-RON0123, 2015ITPNT-RON0124, 2015ITPNT-RON0125, 2015ITPNT-RON0126, 2015ITPNT-RON0127, 2015ITPNT-RON0128, 2015ITPNT-RON0129, 2015ITPNT-RON0130, and 2015ITPNT-RON0131.	6/1/2016	TBD
TBD	Solution(s) for 2015ITPNT-RON0065 and 2015ITPNT-RON0067.	Solution(s) for 2015ITPNT-RON0065 and 2015ITPNT-RON0067.	6/1/2018	TBD
TBD	Solution(s) for 2015ITPNT-RON0078 and 2015ITP10-RON0286.	Solution(s) for 2015ITPNT-RON0078 and 2015ITP10-RON0286.	6/1/2016	TBD
TBD	Solution(s) for 2015ITPNT-RON0078 and 2015ITPNT-RON0145.	Solution(s) for 2015ITPNT-RON0078 and 2015ITPNT-RON0145.	6/1/2015	TBD
TBD	Solution(s) for 2015ITPNT-RON0206, 2015ITPNT-RON0207, 2015ITPNT-RON0208, 2015ITPNT-RON0209, 2015ITPNT-RON0210, 2015ITPNT-RON0211, 2015ITPNT-RON0212, 2015ITPNT-RON0213, 2015ITP10-RON1458, and 2015ITP10-RON1459.	Solution(s) for 2015ITPNT-RON0206, 2015ITPNT-RON0207, 2015ITPNT-RON0208, 2015ITPNT-RON0209, 2015ITPNT-RON0210, 2015ITPNT-RON0211, 2015ITPNT-RON0212, 2015ITPNT-RON0213, 2015ITP10-RON1458, and 2015ITP10-RON1459.	6/1/2021	TBD
TBD	Solution(s) for 2015ITPNT-RON0214, 2015ITPNT-RON0215, 2015ITPNT-RON0216, 2015ITPNT-RON0217, 2015ITPNT-RON0218, 2015ITPNT-RON0219, 2015ITPNT-RON0220, 2015ITPNT-RON0221, 2015ITP10-RON1460, and 2015ITP10-RON1461.	Solution(s) for 2015ITPNT-RON0214, 2015ITPNT-RON0215, 2015ITPNT-RON0216, 2015ITPNT-RON0217, 2015ITPNT-RON0218, 2015ITPNT-RON0219, 2015ITPNT-RON0220, 2015ITPNT-RON0221, 2015ITP10-RON1460, and 2015ITP10-RON1461.	6/1/2021	TBD

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

TBD	Solution(s) for 2015ITPNT-RON0231, 2015ITPNT-RON0243, 2015ITP10-RON1462, and 2015ITP10-RON1463.	Solution(s) for 2015ITPNT-RON0231, 2015ITPNT-RON0243, 2015ITP10-RON1462, and 2015ITP10-RON1463.	6/1/2017	TBD
TBD	Solution(s) for 2015ITPNT-RON0662 and 2015ITPNT-RON0666.	Solution(s) for 2015ITPNT-RON0662 and 2015ITPNT-RON0666.	6/1/2018	TBD
TBD	Solution(s) for 2015ITPNT-RVN0461, 2015ITPNT-RVN0487, 2015ITPNT-RVN0513, 2015ITPNT-RVN1210, 2015ITPNT-RVN1245, 2015ITPNT-RVN1248, 2015ITPNT-RVN1268, 2015ITPNT-RVN1317, 2015ITPNT-RVN1339, and 2015ITPNT-RVN1365.	Solution(s) for 2015ITPNT-RVN0461, 2015ITPNT-RVN0487, 2015ITPNT-RVN0513, 2015ITPNT-RVN1210, 2015ITPNT-RVN1245, 2015ITPNT-RVN1248, 2015ITPNT-RVN1268, 2015ITPNT-RVN1317, 2015ITPNT-RVN1339, and 2015ITPNT-RVN1365.	6/1/2018	TBD
TBD	Solution(s) for 2015ITPNT-RVN1542, 2015ITPNT-RVN1553, 2015ITPNT-RVN1560, 2015ITPNT-RVN1637, 2015ITPNT-RVN1646, 2015ITPNT-RVN1648, 2015ITPNT-RVN1654, 2015ITPNT-RVN1666, 2015ITPNT-RVN1675, 2015ITP10-RVN0293, 2015ITP10-RVN0294, 2015ITP10-RVN0295, 2015ITP10-RVN0296, 2015ITP10-RVN0297, 2015ITP10-RVN0298, 2015ITP10-RVN0299, 2015ITP10-RVN0300, 2015ITP10-RVN0301, 2015ITP10-RVN0302, 2015ITP10-RVN0304, 2015ITP10-RVN0305, 2015ITP10-RVN0346, 2015ITP10-RVN0347, 2015ITP10-RVN0348, 2015ITP10-RVN0349, 2015ITP10-RVN0350, 2015ITP10-RVN0351, 2015ITP10-RVN0352, 2015ITP10-RVN0353, 2015ITP10-RVN0354, 2015ITP10-RVN0355, 2015ITP10-RVN0359, 2015ITP10-RVN0360, 2015ITP10-RVN0361, 2015ITP10-RVN0362, 2015ITP10-RVN0363, and 2015ITP10-RVN0364.	Solution(s) for 2015ITPNT-RVN1542, 2015ITPNT-RVN1553, 2015ITPNT-RVN1560, 2015ITPNT-RVN1637, 2015ITPNT-RVN1646, 2015ITPNT-RVN1648, 2015ITPNT-RVN1654, 2015ITPNT-RVN1666, 2015ITPNT-RVN1675, 2015ITP10-RVN0293, 2015ITP10-RVN0294, 2015ITP10-RVN0295, 2015ITP10-RVN0296, 2015ITP10-RVN0297, 2015ITP10-RVN0298, 2015ITP10-RVN0299, 2015ITP10-RVN0300, 2015ITP10-RVN0301, 2015ITP10-RVN0302, 2015ITP10-RVN0304, 2015ITP10-RVN0305, 2015ITP10-RVN0346, 2015ITP10-RVN0347, 2015ITP10-RVN0348, 2015ITP10-RVN0349, 2015ITP10-RVN0350, 2015ITP10-RVN0351, 2015ITP10-RVN0352, 2015ITP10-RVN0353, 2015ITP10-RVN0354, 2015ITP10-RVN0355, 2015ITP10-RVN0359, 2015ITP10-RVN0360, 2015ITP10-RVN0361, 2015ITP10-RVN0362, 2015ITP10-RVN0363, and 2015ITP10-RVN0364.	6/1/2018	TBD
TBD	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	Solution(s) for 2015ITPNT-RON0742 and 2015ITPNT-RON0743.	6/1/2017	TBD
WERE	BENTON 138kV Terminal Equipment	Replace Terminal Equipment	6/1/2016	6/1/2017
WERE	BPU - CITY OF MCPHERSON PLANT - WEST MCPHERSON 115KV CKT 1	Replace Terminal Equipment	6/1/2021	6/1/2021
WERE	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	Replace Terminal Equipment	10/1/2017	10/1/2017
WERE	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	Build new Geary County 345/115 kV substation south of Junction City where JEC-Summit and McDowell Creek-Junction City #2 ckt separate. Construct new Geary County - Chapman 115 kV line.	6/1/2016	6/1/2017
WERE	Multi - Viola 345/138kV Transformer and 138 kV Lines to Clearwater and Gill	Install 345/138 kV transformer at future Viola 345 kV substation. Build 138kV line from Viola to Clearwater substation. Build 138 kV line from Viola to Gill substation	10/1/2015	6/1/2017

*The Upgrade and Solution(s) for TBD ("to be determined") Reliability Projects contain the related Need Identification numbers used in the 2015 Integrated Transmission Planning Near-Term Assessment and 2015 Integrated Transmission Planning 10-Year Assessment . The designated Transmission Owner(s), Upgrade(s), and respective Estimated Date of Upgrade Completion has yet to be determined

**Multi-Bailey - Lamb 115kV NTC is being re-evaluated.

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

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	BANN - RED SPRINGS REC 138KV CKT 1	Replace 138 kV breakers 3300 & 3310	7/1/2012	7/1/2012
AEPW	EXPLORER GLENPOOL TAP - RIVERSIDE STATION 138KV CKT 1 AEPW	Reconductor 1.82 miles with ACCC. Replace wave trap jumpers at Riverside.	6/1/2009	6/1/2009
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Vallient 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
KACP	EASTOWN7 345.00 (EASTOWN 345) 345/161/13.8KV TRANSFORMER CKT 1	Replace 715 MVA transformer.	5/1/2014	5/1/2014
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCP Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
MIDW	CIRCLE - RICE_CO 230KV CKT 1	Convert from 115kV to 230kV operation	10/1/2012	11/15/2012
MIDW	LYONS - RICE_CO 115KV CKT 1	Rebuild 11.7 mile line	10/1/2012	4/1/2013
MIDW	RICE_CO 230/115KV TRANSFORMER CKT 1	Add 230/115KV Transformer	10/1/2012	11/15/2012
MKEC	CLIFTON - GREENLEAF 115KV CKT 1	Rebuild 14.4 miles	6/1/2011	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
OKGE	BEELINE - EXPLORER GLENPOOL TAP 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	EXPLORER GLENPOOL TAP - RIVERSIDE STATION 138KV CKT 1 OKGE	Reconductor 1.82 miles line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	KNOBHILL (KNOBHIL4) 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
WERE	DEARING 138KV Capacitor	Dearing 138 kv 20 MVAR Capacitor Addition	6/1/2012	6/1/2012
WERE	LYONS - WHEATLAND 115KV CKT 1 #1	Replace CTs	10/1/2012	7/15/2013
WERE	LYONS - WHEATLAND 115KV CKT 1 #2	Rerate circuit to 1000 amps	10/1/2012	7/15/2013
WFEC	BLUE CANYON - PARADISE 138KV CKT 1	Upgrade Paradise to Blue Canyon to 1113	6/1/2010	6/1/2013
WFEC	CANTON - TALOGA 69KV CKT 1	UPGRADE CANTON TO TALOGA TO 336.4	6/1/2011	6/1/2013
WFEC	HUGO POWER PLANT - VALLIANT 345KV CKT 1 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
AECC	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1 AECC	Upgrade 1272 AAC bus at Farmington REC. Replace bus at Farmington REC and rebuild 400 feet of the 161 KV line going to Chamber Springs.	6/1/2021	6/1/2021	Note 1
EES	BULL SHOALS - MIDWAY (YVEPA) 161KV CKT 1	Reconductor the transmission line and upgrade the CT @ Bull Shoals substation	6/1/2017	6/1/2017	\$18,534,510.00
GRIS	SUB C - SUB E 115KV CKT 1	Rebuild 4.57 miles of transmission line	6/1/2016	6/1/2016	\$3,353,745.00
WAPA	FT RANDAL - SPENCER 115KV CKT 1	Reconductor 20 Miles of line	6/1/2016	6/1/2018	\$9,985,080.00

Note 1: AECC Network Upgrade - Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
4OOLOGAH 138.00 - NORTHEAST STATION 138KV CKT 1 AEPW	GRDX	AG1-2014-016	79734977	22.22%	\$14,056
4OOLOGAH 138.00 - NORTHEAST STATION 138KV CKT 1 AEPW	GRDX	AG1-2014-017	79735001	77.78%	\$49,195
				Total:	\$63,251

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
BROKEN ARROW NORTH - SOUTH TAP - LYNN LANE TAP 138KV CKT 1	OMPA	AG1-2014-003	79164464	88.73%	\$9,789,775
BROKEN ARROW NORTH - SOUTH TAP - LYNN LANE TAP 138KV CKT 1	AECC	AG1-2014-018	79744195	11.27%	\$1,243,225
				Total:	\$11,033,000

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 Accelerate	GSECGS	AG1-2014-004	79247189	100.00%	\$255,665
				Total:	\$255,665

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	GRDX	AG1-2014-020	79772133	48.46%	\$50,951
HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	GRDX	AG1-2014-021	79773177	32.21%	\$33,861
HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	GRDX	AG1-2014-022	79773246	19.33%	\$20,317
				Total:	\$105,129

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-005	79385758	23.99%	\$94,751
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-006	79385763	12.11%	\$47,845
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-007	79385767	11.88%	\$46,907
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-008	79386118	10.93%	\$43,157
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-009	79386121	11.14%	\$44,020
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	KCPS	AG1-2014-010	79386125	22.07%	\$87,178
SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	NPPM	AG1-2014-019	79768713	7.88%	\$31,142
				Total:	\$395,000