



SPP

*Southwest
Power Pool*

*System Facilities Study
For Transmission Service Request
242043*

*Requested By
Tenaska Power Service Co.*

*From American Electric Power West
To ERCOT North DC Tie*

*For The Requested Amount Of 25MW
With 15MW Reserved*

*From January 1, 2002
To January 1, 2003*

*SPP Transmission Planning
(#SPP-2001-192-1)
Created January 15, 2002*

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**Southwest Power Pool
Transmission Service Request #242043
SPP System Facilities Study SPP-2001-192-1**

Executive Summary

At the request of Tenaska Power Service Co. (TPS), the Southwest Power Pool developed this Facilities Study for the purpose of evaluating the financial characteristics of Transmission Service Request 242043. This request is for 25MW of Firm Point-To-Point Transmission Service from American Electric Power West (Central and South West, CSWS) to ERCOT North DC Tie (ERCOTN). The requested term of this Transmission Service is from January 1, 2002 to January 1, 2003.

CSWS is currently increasing the summer capacity rating of the ERCOTN facility from 185MW to 200MW at no cost to TPS. SPP is allocating this 15MW of available capacity to TPS. Given that the estimated engineering and construction cost is \$21,250,000 to increase the capacity of this facility above 200MW and up to 236MW, no other options were evaluated. Therefore, only a total of 15MW is allocated to TPS. Other Network Upgrades that are required to provide a transfer capability of 15MW are assignable to TPS.

The projected base rate transmission service charges (excluding charges for ancillary services) are \$189,000 during the applicable portion of the reservation period based on the available transfer capability (ATC) of the existing transmission system with Network Upgrades. The Transmission Customer is required to pay the higher of either the base rate transmission service charges or the revenue requirements associated with the Network Upgrades. The estimated levelized revenue requirements for providing the necessary Network Upgrades to accommodate the Transmission Service request are \$9,816. As the estimated base rate transmission service charges are greater than the estimated revenue requirements for Network Upgrades, TPS shall pay the base rate transmission service charges.

Annual ATC allocated to the Transmission Customer is determined by the least amount of seasonal ATC on an annual basis. Allocated ATC and associated revenue requirements are based on items received by February 1, 2002 including 1) an executed Service Agreement received by SPP, and 2) authorization to proceed with engineering and construction received by Transmission Owners from SPP. In the event that the Transmission Customer does not provide SPP with an executed Service Agreement by February 1, 2002, then the ATC of the existing transmission system with Network Upgrades will have to be reevaluated due to subsequent delays in scheduling engineering and construction for the required Network Upgrade.

As the only Network Upgrade required to accommodate this request was previously assigned, only applicable interest and taxes are assigned to this request. As a result, no letter of credit is required. Also, this study provides no assurance of the availability of transmission capacity or the adequacy of existing or planned transmission facilities for Transmission Service in excess of the allocated 15MW.

The Transmission Customer is responsible for the cost of upgrading all identified third-party facilities that are overloaded due to the requested service. In this case, no third-party facilities were identified. Not all third-party facilities were monitored during the development of the corresponding Impact Study. Therefore, additional third-party facilities upgrades may be required to accommodate the requested Transmission Service.

Introduction

The principal objective of this Facilities Study is to identify the costs of Network Upgrades that must be added or modified to provide the requested Transmission Service while maintaining a reliable transmission system. This study includes a good faith estimate of the Transmission Customer's assigned cost for the required Network Upgrades and the time required to complete such construction and to initiate the requested service. No Direct Assignment facilities are included in this study as none were identified to provide the requested Transmission Service.

Another objective is to estimate the levelized revenue requirement for all identified Network Upgrades by Transmission Owner. The levelized revenue requirement is based on cost components of each upgrade including depreciation, weighted cost of capital, composite income tax, other tax, and deferred income tax credit. This information will be used to allocate revenue to Transmission Owners even if it is not the basis for billing the Transmission Customer pursuant to “or” pricing.

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 ATC within each annual period will be offered to the Transmission Customer on an applicable annual basis within the reservation period.

The staff of SPP completed System Impact Study SPP-2001-192 that identified system limitations and required modifications to the SPP system necessary to provide the requested Transmission Service. The Network Upgrades that were not assigned to a previous request and are required to provide the requested Transmission Service are listed in [Table 1](#). To accommodate this request, no new Network Upgrades that have not been previously assigned are required. The ATC values associated with only transfer-limiting upgrades are listed in [Table 7](#).

All Network Upgrades assigned to previous Transmission Service requests that have not yet been constructed were monitored to determine whether the previously assigned upgrades are adequate to support this additional request. To accommodate a new request for Transmission Service, a previously assigned Network Upgrade may require capacity in addition to that previously specified. A previously assigned Network Upgrade may be required to be in service at an earlier date than previously indicated to accommodate a new request. With regard to the capacity and in-service date of a previously assigned Network Upgrade, an upgrade may require both additional capacity and an earlier in-service date to accommodate this request for Transmission Service.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this request for Transmission Service are listed in Table 2. To accommodate this request, no previously assigned Network Upgrades will require capacity in addition to that previously specified. Due to the in-service dates of these Network Upgrades, some may limit and delay the requested Transmission Service. The ATC values associated with only transfer-limiting upgrades are listed in Table 6.

Network Upgrades that were previously assigned and will require only accelerated in-service dates to accommodate this request for Transmission Service are listed in Table 3. To accommodate this request, one (1) previously assigned Network Upgrade will require an earlier in-service date than previously indicated. A Network Upgrade will be required on Western Farmers Electric Cooperative's (WFEC) transmission system. Due to the in-service date of this Network Upgrade, there is no limit or delay in the allocated Transmission Service of 15MW. Due to the in-service dates of these Network Upgrades, some may limit and delay the requested Transmission Service. The ATC values associated with only transfer-limiting upgrades are listed in Table 6.

Network Upgrades that were previously assigned and will require both additional capacity and accelerated in-service dates to accommodate this request for Transmission Service are listed in Table 4. To accommodate this request, no previously assigned Network

Upgrades will require both capacity in addition to that previously specified and an earlier in-service date than previously indicated. Due to the in-service dates of these Network Upgrades, some may limit and delay the requested Transmission Service. The ATC values associated with only transfer-limiting upgrades are listed in Table 6.

Given the estimated dates when Network Upgrades will be required for the requested Transmission Service to be provided, there are no facility limits that will either delay the start date of the service or limit the ATC to less than the allocated 15MW. Transfer-limiting facilities are listed in Tables 6 and 7. Seasonal and annual transfer limits given engineering and construction lead times are listed in Table 5. A summary of ATC throughout the reservation period is included in Table 8. The estimated time required to complete the engineering and construction of the first transfer-limiting facility in the summer peak period of 2002 is 4 months after WFEC's receipt of authorization to proceed from SPP. WFEC's CT replacement in the Midwest Tap to Franklin Switch 138kV transmission line has a 4 month construction lead time and this upgrade is scheduled to be completed June 1, 2002. The constraint is due to the outage of the Pharoah to Wetumka 138kV line during the 2002 summer peak period. The minimum ATC during the 2002 summer peak, from June 1 to October 1, is 0MW.

Firm Point-To-Point Transmission Service may be provided to TPS during a summer peaking period in the amount of 15MW after the Midwest Tap to Franklin Switch facility upgrade is in service. If a completed Service Agreement is received by SPP on or before February 1, 2002, then the allocated Transmission Service may be provided throughout 2003 given no unexpected delays in design and construction.

SPP does not accept requests for firm Transmission Service without restrictions if the design criteria specified in the corresponding Impact Study are not met. However, SPP may accept a request with a reduction of provided capacity to designated levels within the specified time frames as listed in Table 8. SPP accepts this request for Transmission

Service given this allocation of capacity of which is less than that requested through December 2002.

Tables 5, 8, 9 and 10 include lists of capacity of which is less than that requested through the reservation period. Table 9 includes the ATC and the estimate of base rate transmission service charges. The ATC and the estimate of levelized revenue requirements for Network Upgrade are provided in Table 10. The Transmission Customer shall pay the higher of the base rate transmission service charges or the levelized revenue requirements for the Network Upgrades.

Third-Party Facilities

For third-party facilities listed in Table 11, the Transmission Customer is responsible for obtaining arrangements for the necessary upgrades of the facilities per Section 21.1 of the SPP OATT. If requested, SPP is willing to undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities.

All facilities within SPP, of which are currently modeled, were monitored during the development of the corresponding Impact Study. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. Third-party facilities include those owned by members of SPP who have not placed their facilities under SPP's OATT.

Financial Analysis

The revenue requirements associated with each assigned Network Upgrade is calculated using the estimated installed cost for each Network Upgrade reflected herein and the annual fixed charge rate of the constructing Transmission Owner. A present worth analysis is conducted, based on each Transmission Owner's annual fixed charge rates including weighted cost of capital, to determine the levelized revenue requirement of each

Network Upgrade. The levelized revenue requirements of all applicable Network Upgrades are summed to determine the total revenue requirements for Network Upgrades associated with the Transmission Service request.

Each request for Transmission Service is evaluated independently as the cost associated with each Network Upgrade is assigned to a request. For new facilities, the Transmission Customer shall pay the total cost through the reservation period including engineering and construction costs and other annual operating costs. When upgrading facilities, the Transmission Customer shall, throughout the reservation period, 1) pay the total engineering and construction 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 facilities based on their respective book values.

The amortization period for Network Upgrades and Direct Assignment facilities shall be the lesser of 1) the reservation period, or 2) the period between the completion of construction within the reservation period and the end of the reservation period. The annual fixed charge rate for each Transmission Owner shall be based on the sum of expenses for a previous calendar year, including weighted cost of capital, composite income tax, other tax, and deferred income tax credit, divided by the plant investment for the same year.

Categories of costs and credits associated with Network Upgrades and Direct Assignment facilities shall include those specified below. The costs allocated to the Transmission Customer throughout the entire reservation period shall be the sum of the levelized present worth of each of the identified cost and credit components based on each Transmission Owner's weighted cost of capital.

1. Amortized engineering and construction costs associated with the new facilities.

2. Annual carrying charges, excluding depreciation, based on the product of 1) total engineering and construction costs associated with the new facilities, and 2) annual fixed charge rate (per-unit).
3. Amortized existing facility credit associated with the replaced facilities including the sum of the depreciated book values of only the reusable facilities within the respective remaining depreciation periods.
4. The salvage value credit of non-usable facilities.
5. Annual carrying charge credits, excluding depreciation, based on the product of 1) book values associated with all replaced facilities, and 2) annual fixed charge rate (per-unit).

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

If the capacity of a previously assigned Network Upgrade is insufficient to accommodate a new request for Transmission Service, expediting the upgrade may be needed, and sufficient time is available for the Transmission Owner to accomplish necessary re-design and construction of the upgrade with additional capacity while accommodating previous requests, then the levelized present worth of only the incremental expenses though the

reservation period of the new request, including depreciation, shall be assigned to the new request. These incremental expenses include 1) if expediting, the levelized difference in present worth of the previously assigned 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) if expediting, the levelized present worth of all expediting fees, 3) the levelized present worth of the incremental annual carrying charges associated with the previously assigned upgrade, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously expedited, and 4) the levelized present worth of the incremental annual carrying charges, including depreciation, associated with the additional capacity through the reservation period of the new request.

The zone interfaced to the sink with the lowest zonal rate for Firm Point-To-Point Transmission Service is CSWS. The current zonal rate of CSWS is \$1,050/MW-Month. Table 8 includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in Tables 6 and 7. Given the lesser of these values of ATC and the requested capacity, corresponding base rate transmission service charges are listed on a monthly basis in Table 9. The base rate transmission service charges from the requested Transmission Service are estimated to be \$189,000.

The estimate of total revenue requirements listed in Table 10 for the required Network Upgrades throughout the requested transaction period is \$9,816. The estimated revenue requirements for the required Network Upgrades are less than the projected base rate transmission service charges over the requested transaction period. Therefore, the Transmission Customer will be responsible for the base rate transmission service charges of which are estimated to be \$189,000 throughout the transaction period.

The Southwest Power Pool and the affected Transmission Owners including WFEA shall use due diligence to add necessary facilities or upgrade the Transmission System to

provide the requested Transmission Service, provided TPS agrees to compensate SPP for such costs pursuant to the terms of Section 27 of the SPP Open Access Transmission Tariff. Partial Interim Service is available to TPS per Section 19.7 of the SPP Open Access Transmission Service Tariff.

Engineering and construction of all new facilities and modifications will not start until after an executed Service Agreement has been received by SPP and the affected Transmission Owners receive the appropriate authorization to proceed from SPP. In accordance with section 19.4 of the SPP Open Access Transmission Service Tariff, the Transmission Customer shall provide and maintain in effect, during the term of the Transmission Service Agreement, an unconditional and irrevocable letter of credit to the SPP for the initial engineering and construction costs to be incurred by the Transmission Owners. Given that no new Network Upgrades are assigned to TPS, no letter of credit is required. This does not include or offset other letters of credit or deposits as may be required under the tariff.

Conclusion

Given the constraints identified in the System Impact Study SPP-2001-192, estimated engineering and construction costs in addition to lead times for construction of Network Upgrades are provided. These estimated costs are for facilities required to provide the requested Transmission Service. The lead times do not include any allowances for possible delays due to outage conflicts during construction, conflicts with construction during the summer peak, engineering and construction manpower constraints, etc. The lead times are based on engineering starting when SPP provides the Transmission Owners approval to start on the projects.

Based on the results of the Impact Study SPP-2001-192, Network Upgrades that were identified as required to provide the requested Transmission Service are listed in Tables 1 through 4. Table 1 includes the Network Upgrades and costs assigned to the TPS to accommodate Transmission Service Request 242043 from CSWS to ERCOTN. Table 2

includes previously assigned Network Upgrades requiring only additional capacity to accommodate this request. Table 3 includes previously assigned Network Upgrades requiring only accelerated in-service dates. Table 4 includes previously assigned Network Upgrades requiring both additional capacity and accelerated in-service dates to accommodate this request.

Throughout the transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$9,816 for Transmission Service Request 242043. ATC allocated to the Transmission Customer is determined by the least amount of seasonal ATC on an annual basis. A listing of ATC values and monthly revenue requirements for the required Network Upgrades is in Table 10. The base rate transmission service charges are estimated to be \$189,000 and the monthly revenue requirements are listed in Table 9. As the base rate transmission service charges are greater than the revenue requirements for the required Network Upgrades, the revenue requirements from the Transmission Customer are for base rate transmission service charges.

To complete the request for Transmission Service, SPP must receive an executed Service Agreement from the Transmission Customer within 15 days of receipt of this study. The Transmission Customer must also confirm this request on Southwest Power Pool's OASIS pursuant to the results of this Facilities Study. Upon receipt of the agreement by SPP and confirmation by the Transmission Customer, SPP will authorize the applicable Transmission Owners to proceed with the engineering and construction of the Network Upgrades assigned to this request.

In the event that Transmission Customers do not confirm other requests for Transmission Service that have previously assigned Network Upgrades, the assignment of applicable Network Upgrades will need to be reevaluated. For example, SPP is currently waiting for Power Resource Group to confirm Transmission Service Request 212202 that includes

the assignment of the CT replacements in the Midwest Tap to Franklin Switch 138kV line.

Table 1
Estimated Network Upgrade Costs, Lead Times & In-Service Dates
For Facilities Assigned To Only This Request For Transmission Service
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003

NETWORK UPGRADE	COSTS TO ENGINEER & CONSTRUCT (\$2002)	ENG. & CONST. LEAD TIME (MONTHS)	DATE NEEDED (M/D/Y)	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	SCHEDULED DATE IN SERVICE (M/D/Y) (2)
None.					
SUBTOTAL	\$0				

- Note: (1) When the projected completion of Network Upgrades is 1) between June 1 and September 15, or 2) between September 15 and 4.5 months thereafter, then 4.5 months are added as these facilities will not be taken out of service during the summer peaking period. Therefore, the possible end of construction is February 1 or later of the next year.
- (2) The scheduled date is based on when continuous annual service may be started after the possible in-service date. If N/A, then the facility upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual service above the ATC limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time within the reservation period due to reduced loading of the facility below its emergency rating.

Table 2

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates
For Previously Assigned Facilities Requiring Only Additional Capacity
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003**

PREVIOUSLY ASSIGNED NETWORK UPGRADE	NEW ADDED UPGRADE	PREVIOUS REQUEST (NO.)	PREVIOUS ENG. & CONST. COSTS (\$)	CURRENT TOTAL ENG. & CONST. COST (\$2001)	ENG. & CONST. LEAD TIME (MONTHS)	DATE NEEDED (M/D/Y)	PREVIOUSLY SCHEDULED DATE IN SERVICE (M/D/Y)
None							
SUBTOTAL			\$0	\$0			

Table 3

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates
For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003**

PREVIOUSLY ASSIGNED NETWORK UPGRADE	PREVIOUS REQUEST (NO.)	ENGINEERING & CONSTRUCTION COSTS (\$)	ENG. & CONST. LEAD TIME (MONTHS)	DATE NEEDED (M/D/Y)	PREVIOUS DATE IN SERVICE (M/D/Y)	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	SCHEDULED DATE IN SERVICE (M/D/Y) (2)
Franklin Sw. – Midwest Tap 138kV: Replace 600A metering CTs with 1,200A By WFEC.	212202	55,000	4 (3)	6/1/02	6/1/06	6/1/02	6/1/02
SUBTOTAL		\$55,000					

- Note: (1) When the projected completion of Network Upgrades is 1) between June 1 and September 15, or 2) between September 15 and 4.5 months thereafter, then 4.5 months are added as these facilities will not be taken out of service during the summer peaking period. Therefore, the possible end of construction is February 1 or later of the next year.
- (2) The scheduled date is based on when continuous annual service may be started after the possible in-service date. If N/A, then the facility upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual service above the ATC limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time within the reservation period due to reduced loading of the facility below its emergency rating.
- (3) Lead time reduced from 9 to 4 months.

Table 4

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates
For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003**

PREVIOUSLY ASSIGNED NETWORK UPGRADE	NEW ADDED UPGRADE	PREVIOUS REQUEST (NO.)	PREVIOUS ENG. & CONST. COSTS (\$)	CURRENT TOTAL ENG.& CONST. COST (\$2001)	ENG. & CONST. LEAD TIME (MONTHS)	DATE NEEDED (M/D/Y)	PREVIOUS DATE IN SERVICE (M/D/Y)	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	SCHEDULED DATE IN SERVICE (M/D/Y) (2)
None									
SUBTOTAL			\$0	\$0					

- Note: (1) When the projected completion of Network Upgrades is 1) between June 1 and September 15, or 2) between September 15 and 4.5 months thereafter, then 4.5 months are added as these facilities will not be taken out of service during the summer peaking period. Therefore, the possible end of construction is February 1 or later of the next year.
- (2) The scheduled date is based on when continuous annual service may be started after the possible in-service date. If N/A, then the facility upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual service above the ATC limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time within the reservation period due to reduced loading of the facility below its emergency rating.

Table 5
Transfer Limits Given Engineering And Construction Lead Times
Of Previously Assigned Facilities And Facilities Assigned To This Request
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003

PREVIOUS OR THIS RESERVATION		THIS RESERVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE (1)		SCHEDULED (2)
NETWORK ELEMENT	TRANS. OWNER	ATC (MW)	ATC (MODEL)	DATE UPGRADE NEEDED (M/D/Y)	ENG. & CONST. LEAD TIME (MONTH)	DATE AVAIL-ABLE (M/D/Y)	DELAY (MONTH)	DATE AVAIL-ABLE (M/D/Y)	DELAY (MONTH)	DATE AVAILABLE (M/D/Y)
Other's Request 212202, SPP-2000-108, with a contract date of 11/15/2001.										
Franklin Switch – Midwest Tap 138kV: Replace 600A metering CTs with 1,200A.	WFEC	0 (3)	02SP	6/1/02	4 (4)	6/1/02		6/1/02		6/1/02 (5)
Minimum 6/1 – 10/1:		15								

- Note: (1) When the projected completion of Network Upgrades is 1) between June 1 and September 15, or 2) between September 15 and 4.5 months thereafter, then 4.5 months are added as these facilities will not be taken out of service during the summer peaking period. Therefore, the possible end of construction is February 1 or later of the next year.
- (2) The scheduled date is based on when continuous annual service may be started after the possible in-service date. If N/A, then the facility upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual service above the ATC limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time within the reservation period due to reduced loading of the facility below its emergency rating.
- (3) Not limiting as the scheduled completion of the upgrade is before it is required to accommodate this request for Transmission Service.
- (4) Reduced lead time from 9 to 4 months.
- (5) Requires a contract date of February 1, 2002 given a 4 month lead time for engineering and construction.

**Table 6
Network Elements Assigned To Previous Requests For Transmission Service
That Limit The ATC To Less Than That Requested
Due To Engineering And Construction Schedules
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003**

PREVIOUSLY ASSIGNED NETWORK UPGRADE	PREVIOUS REQUEST (NO.)	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
Franklin Switch – Midwest Tap 138kV: Replace 600A metering CTs with 1,200A By WFEC.	212202	6/1/06 (1)	0	02SP	<u>6/1 – 10/1</u> 2002

Note (1) Must be expedited to 6/1/02 in order to accommodate this request for Transmission Service on 6/1/02.

ATC Models

Example Season Designation: From Date – To Date (M/D/Y), Season Description

02AP: 4/1/02 – 6/1/02, Spring Minimum

02FA: 10/1/02 – 12/1/02, Fall Peak

02G: 4/1/02 – 6/1/02, Spring Peak

02WP: 12/1/02 – 4/1/03, Winter Peak

02SP: 6/1/02 – 10/1/02, Summer Peak

**Table 7
 Network Elements Assigned To This Transmission Service Request
 That Limit The ATC To Less Than That Requested
 Due To Engineering And Construction Schedules
 For Request 242043 From CSWS To ERCOTN
 During The Period From January 1, 2002 To January 1, 2003**

NETWORK UPGRADE	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
None.				

Note: Date In Service is based on items received by February 1, 2002 including 1) a signed Service Agreement received by SPP, and 2) authorization to proceed with engineering and construction received by Transmission Owners from SPP.

ATC Models

Example Season Designation: From Date – To Date (M/D/Y), Season Description

02AP: 4/1/02 – 6/1/02, Spring Minimum

02FA: 10/1/02 – 12/1/02, Fall Peak

02G: 4/1/02 – 6/1/02, Spring Peak

02WP: 12/1/02 – 4/1/03, Winter Peak

02SP: 6/1/02 – 10/1/02, Summer Peak

Table 8
Summary Of Available Transfer Capability
With All Network Upgrades Assigned To This And Previous Reservations
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2002	1/1 – 4/1	15
2002	4/1 – 6/1	15
2002	6/1 – 10/1	15
2002	10/1 – 12/1	15
2002	12/1 – 12/31	15
2002 Summary	1/1 – 12/31	15

Note: Values of ATC are based on items received by February 1, 2002 including 1) a signed Service Agreement received by SPP, and 2) authorization to proceed with engineering and construction received by Transmission Owners from SPP. Annual ATC allocated to the Transmission Customer is determined by the least amount of seasonal ATC on an annual basis.

Table 9
Summary Of Available Transfer Capability With All Network Upgrades
And The Estimate Of Base Rate Transmission Service Charges Only,
Excluding The Cost Of Network Upgrades,
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003

OPERATING PERIOD	2002		2003		2004	
	ATC (MW)	BASE RATE REVENUE (\$)	ATC (MW)	BASE RATE REVENUE (\$)	ATC (MW)	BASE RATE REVENUE (\$)
January	15	15,750	N/A	0	N/A	0
February	15	15,750	N/A	0	N/A	0
March	15	15,750	N/A	0	N/A	0
April	15	15,750	N/A	0	N/A	0
May	15	15,750	N/A	0	N/A	0
June	15	15,750	N/A	0	N/A	0
July	15	15,750	N/A	0	N/A	0
August	15	15,750	N/A	0	N/A	0
September	15	15,750	N/A	0	N/A	0
October	15	15,750	N/A	0	N/A	0
November	15	15,750	N/A	0	N/A	0
December	15	15,750	N/A	0	N/A	0
SUBTOTAL BY YEAR	\$189,000				0	
TOTAL FOR ALL YEARS						\$189,000

Note: Values of ATC are based on items received by February 1, 2002 including 1) a signed Service Agreement received by SPP, and 2) authorization to proceed with engineering and construction received by Transmission Owners from SPP. Annual ATC allocated to the Transmission Customer is determined by the least amount of seasonal ATC on an annual basis.

Table 10
Summary Of Available Transfer Capability With All Network Upgrades
And The Estimate Of Network Upgrade Revenue Requirements Only
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003

OPERATING PERIOD	2002		2003		2004	
	ATC (MW)	NETWORK UPGRADE REVENUE (\$)	ATC (MW)	NETWORK UPGRADE REVENUE (\$)	ATC (MW)	NETWORK UPGRADE REVENUE (\$)
January	15	818	N/A	0	N/A	0
February	15	818	N/A	0	N/A	0
March	15	818	N/A	0	N/A	0
April	15	818	N/A	0	N/A	0
May	15	818	N/A	0	N/A	0
June	15	818	N/A	0	N/A	0
July	15	818	N/A	0	N/A	0
August	15	818	N/A	0	N/A	0
September	15	818	N/A	0	N/A	0
October	15	818	N/A	0	N/A	0
November	15	818	N/A	0	N/A	0
December	15	818	N/A	0	N/A	0
SUBTOTAL BY YEAR		\$9,816				
TOTAL FOR ALL YEARS						\$9,816

Note: Values of ATC are based on items received by February 1, 2002 including 1) a signed Service Agreement received by SPP, and 2) authorization to proceed with engineering and construction received by Transmission Owners from SPP. Annual ATC allocated to the Transmission Customer is determined by the least amount of seasonal ATC on an annual basis.

Table 11

**Identified Third-Party Network Upgrades & Required In-Service Dates
To Accommodate This Request For Transmission Service
For Request 242043 From CSWS To ERCOTN
During The Period From January 1, 2002 To January 1, 2003**

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
None	