

### System Facilities Study For Transmission Service Request 212202 Requested By Power Resource Group, Inc. From American Electric Power West To Entergy For The Reserved Amount Of 670MW From January 1, 2003 To January 1, 2006

With Deferral To The Period From October 1, 2004 To October 1, 2007

> SPP Transmission Planning (#SPP-2000-108-3) Revised November 28, 2001

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### Southwest Power Pool Transmission Service Request #212202 SPP System Facilities Study SPP-2000-108-3

### **Executive Summary**

At the request of Power Resource Group, Inc. (PRG), the Southwest Power Pool developed this Facilities Study for the purpose of evaluating the financial characteristics of Transmission Service Request 212202. This request is for 670MW of Firm Transmission Service from American Electric Power West (Central and South West) (CSWS) to Entergy (EES). The requested term of this Point-To-Point Service is from January 1, 2003 to January 1, 2006.

Given the results of SPP's base case analysis pursuant to the request for Transmission Service, the available transfer capability (ATC) listed in <u>Table 8</u> is insufficient to provide the Transmission Customer with reliable service for a significant portion of the requested reservation period without impairing or degrading reliability to existing firm services. Therefore, the Deferral of Service as provided for in section 15.5 of SPP's Open Access Transmission Tariff (OATT) was deemed applicable by SPP to this request for Transmission Service. As a result, an additional analysis documented as the deferral case was conducted regarding the deferral of the reservation period until such time as 3.0 years of Transmission Service may be provided at the capacity level requested. Given the results of this deferral case analysis, the start of Transmission Service may be deferred until October 1, 2004.

The purpose of revising the Facilities Study is to document the effect of rating changes for some transmission lines owned by one Transmission Owner. CSWS has evaluated the conductor ratings of its transmission lines. As a result, the ratings of some circuits have increased given limiting components such as wavetraps and switches. Four additional Network Upgrades are assigned to this request as they are no longer required to accommodate Transmission Service request 150680. However, ten Network Upgrades that were previously assigned to this request are no longer required to accommodate this request. In addition, Western Resources has updated the upgrade requirements of its Hoyt HTI Switching JCT to Circleville 115kV line.

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The time frame in which 3.0 years of annual ATC, in the requested amount of 670MW, is available is from October 1, 2004 to October 1, 2007. The projected base rate transmission service charges (excluding charges for ancillary services) are \$16,642,800 for the deferred 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 deferred Transmission Service request are \$65,984,688. As the estimated base rate transmission service charges are less than the estimated revenue requirements for Network Upgrades, PRG shall pay for the revenue requirements associated with the Network Upgrades.

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 in the deferred case are based on items received by November 15, 2001 including 1) an executed Service Agreement and letter of credit 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 and letter of credit by November 15, 2001, 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 Upgrades.

In the deferred case analysis, SPP as the Transmission Provider must receive an unconditional and irrevocable letter of credit, in the amount of \$52,459,470, before the Transmission Owners incur initial engineering and construction costs. 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 requested 670MW.

The Transmission Customer is responsible for the cost of upgrading all third-party facilities that are overloaded due to the requested service. In this deferred case, a list of identified third-party facilities is in <u>Table 11</u>. 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.

CSWS has evaluated the conductor ratings of its transmission lines. As a result, the ratings of some circuits have increased given limiting components such as wavetraps and switches. Additional Network Upgrades assigned to this request are associated with the IPC Jefferson to Lieberman 138kV, Cherokee to Knox Lee 138kV, Cherokee to Tatum 138kV and Rock Hill to Tatum 138kV transmission lines as they are no longer required to accommodate Transmission Service request 150680. Previously assigned Network Upgrades that are no longer required to accommodate this request are for the Scrogns to Ferndale Lake Tap 69kV, IPC Jefferson to Lieberman 138kV, Longwood to Noram 138kV, Noram to Raines 138kV, Tatum to Rockhill 138kV, East Centerton to Gentry REC 161kV, Eureka Springs to Beaver Dam 161kV, Gentry to Flint Creek 161kV, Lake Elmdale to Chamber Springs Rd 161kV and S. Texarkana REC to Texarkana Plant 69kV transmission lines.

### **Base Case, The Requested Service**

The staff of SPP completed System Impact Study SPP-2000-108 that identified system limitations and required modifications to the SPP system necessary to provide the requested Transmission Service. Network Upgrades will be required on the CSWS, Empire District Electric (EDE), Grand River Dam Authority (GRDA), Kansas City Power & Light (KCPL), Oklahoma Gas & Electric (OKGE), Southwestern Power Administration (SPA), Western Farmers Electric Cooperative (WFEC) and Western Resources (WR) transmission systems. Due to the in-service dates of these Network Upgrades, some will limit and delay the requested Transmission Service.

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 inservice date to accommodate this request for Transmission Service.

Some constraints identified in the Impact Study are not addressed in this Facilities Study as the Transmission Owners determined that upgrades are not required due to various reasons. CSWS' Ferndale Lake Tap to Pittsburg 69kV line requires no upgrade due to rating changes. No changes are needed in the Wallace Lake to South Shreveport 138kV line as the Dolet Hills Operating Guide is in effect.

EDE's Monett to Aurora 161kV line was excluded as this line is being reconductored at EDE's expense, and this project is to be completed by December 31,2002. As the Joplin 161/69kV transformer must be upgraded from 75MVA to 150MVA, an upgrade of the Reinmiller 161/69kV transformer is not necessary.

GRDA's Kerr to Kansas Tap 161kV line will not require an upgrade as its ratings were updated. KCPL's West Gardner to LaCygne 345kV line requires no upgrading as adding the Stilwell to LaCygne 345kV circuit #2 will eliminate this overload.

OKGE's Chestnut to Enid 69kV overload will be eliminated at its expense by adding a bus-tie transformer in order to reduce loading of the line by June 1, 2004. An upgrade of the Helberg 161/69kV transformer is not needed as OKGE will construct a 69kV line from Short Mountain to Prairie View in 2005 at its expense that will reduce the loading of the transformer. No changes are required in the Muskogee 161/69 kV Substation as load is being transferred to 161kV in 2003 at OKGE's expense. An upgrade of the Tinker #4 to Tinker #2 138kV underground circuit is not required as protective relaying will limit the loading.

WFEC's Chikaskia Tap to Braman 69kV line requires no upgrading as indicated due to rating changes by WFEC. WR's County Line 115/69 kV transformer requires no

upgrading due to its Transmission Operating Directive 803. An upgrade of the Lawrence Hill 230/115 kV transformer is not needed due to its Transmission Operating Directive 625. No changes in the Midland 230/115KV Substation are required due to a network reconfiguration. An upgrade of the South Gage to Auburn 115kV line is not required as the modeled contingency causing the overload is invalid.

Given the estimated dates when Network Upgrades will be required for the requested Transmission Service to be provided, there are facility limits that will either delay the start date of the service or limit the ATC to less than that requested. The estimated time required to complete the engineering and construction of the most transfer-limiting facility in the summer peak period of 2003 is 36 months after KCPL's receipt of authorization to proceed from SPP. KCPL's Stilwell to LaCygne 345kV transmission line addition has a 36 month construction lead time. The constraint is due to the outage of the West Gardner to LaCygne 345kV line during the 2004 and 2006 summer peak periods. The minimum ATC during the 2003, 2004, 2005 and 2006 summer peak, from June 1 to October 1, is 0MW. The upgrade of several other constraints identified in the corresponding System Impact Study cannot be completed until after the start-date of the requested Transmission Service due to lead times for engineering & construction.

### **Deferral Case Per SPP OATT 15.5**

The ATC is insufficient to provide the Transmission Customer with reliable Transmission Service for a significant portion of the requested reservation period. Therefore, construction of Network Upgrades is required in order that reliable Transmission Service is maintained for existing firm services. As a result, the Deferral of Service as provided for in section 15.5 of SPP's OATT was deemed applicable by SPP. Given the lack of ATC, an analysis was conducted regarding the deferral of the reservation period until such time as 3.0 years of annual Transmission Service may be provided at the capacity level requested. Given the results of this deferral case analysis, the start of Transmission Service may be deferred to October 1, 2004.

The staff of SPP created the System Impact Study SPP-2000-108 that identified system limitations and required modifications to the SPP system necessary to provide the

deferred Transmission Service from October 1, 2004 through September 30, 2007. The Network Upgrades that were not assigned to a previous request and are required to provide the deferred Transmission Service are listed in <u>Table 1</u>. Network Upgrades will be required on the CSWS, EDE, GRDA, KCPL, OKGE, SPA, WFEC and WR transmission systems. Due to the in-service dates of these Network Upgrades, none will limit and delay the deferred Transmission Service. The ATC values associated with only transfer-limiting upgrades are listed in <u>Table 6</u>.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this deferral of Transmission Service are listed in <u>Table 2</u>. To accommodate this deferral, no previously assigned Network Upgrades will require capacity in addition to that previously specified. Due to the in-service dates of these Network Upgrades, none will limit and delay the deferred Transmission Service. The ATC values associated with only transfer-limiting upgrades are listed in <u>Table 5</u>.

Network Upgrades that were previously assigned and will require only accelerated inservice dates to accommodate this deferral of Transmission Service are listed in <u>Table 3</u>. To accommodate this deferral, no previously assigned Network Upgrades will require an earlier in-service date than previously indicated. However, 6 in-house projects of the designated transmission owners will require expediting. Due to the in-service dates of these Network Upgrades, none will limit and delay the deferred Transmission Service.

Network Upgrades that were previously assigned and will require both additional capacity and accelerated in-service dates to accommodate this deferral of Transmission Service are listed in <u>Table 4</u>. To accommodate this deferral, 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, none will limit and delay the deferred Transmission Service.

Given the estimated dates in which Network Upgrades are required for the deferred Transmission Service to be provided, there are no facility limits after the start date of the deferred service. Transfer-limiting facilities are listed in <u>Tables 5</u> and <u>6</u>. Seasonal and

annual transfer limits given engineering and construction lead times are listed in <u>Table 7</u>. A summary of ATC throughout the deferred reservation period is included in <u>Table 8</u>.

Firm Point-To-Point Transmission Service may be provided to PRG in the amount requested after the Stilwell to LaCygne 345kV circuit #2 addition is in service. If a completed Service Agreement is received by SPP on or before November 15, 2001, then the deferred Transmission Service may be provided on approximately October 1, 2004 given no unexpected delays in design, permitting, 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 for the deferred reservation period given that the ATC with Network Upgrades is at least equal to the requested capacity. SPP accepts this deferral of Transmission Service given this allocation of capacity of which is equal to that requested starting October 1, 2004. Thereafter, the requested capacity throughout the remainder of the deferred reservation period through September 2007 is available to accommodate this request for Transmission Service. SPP accepts this request, with the deferred reservation period, per SPP OATT 15.5 for Transmission Service given this allocation of capacity of which is equal to that requested and only available from October 1, 2004 to October 1, 2007.

<u>Tables 7, 8, 9</u> and <u>10</u> include lists of capacity of which is equal to that requested through the deferred reservation period. <u>Table 9</u> 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 <u>Table 10</u>. 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 <u>Table 11</u>, 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

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Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. The upgrade requirements of the Carthage to Jasper and Carthage to Reeds Spring 69kV lines may be specified by Associated Electric Cooperative, Inc. (AECI) as the limiting components of these lines are not SPA's. Also, the Neosho 161/69kV transformer upgrade may be required by AECI.

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.
- 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 though 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 Southwestern Power Administration (SPA). The current zonal rate of SPA is 690/MW-Month. In the deferral case, <u>Table 8</u> includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in <u>Tables 5</u> and <u>6</u>. 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 <u>Table 9</u>. The base rate transmission service charges from the deferred Transmission Service are estimated to be \$16,642,800 throughout the transaction period.

The estimate of total revenue requirements listed in <u>Table 10</u> for the required Network Upgrades throughout the deferred transaction period is \$65,984,688. The estimated revenue requirements for the required Network Upgrades are greater than the projected base rate transmission service charges over the deferred transaction period. Therefore, the Transmission Customer will be responsible for the revenue requirements for the required Network Upgrades of which are estimated to be \$65,984,688 throughout the deferred transaction period.

The Southwest Power Pool and the affected transmission owners including CSWS, EDE, GRDA, KCPL, OKGE, SPA, WFEC and WR shall use due diligence to add necessary facilities or upgrade the Transmission System to provide the deferred Transmission Service, provided PRG 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 PRG 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 in the amount of no less than \$52,459,470 for the initial engineering and construction costs to be incurred by the Transmission Owners. This amount 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-2000-108, estimated engineering and construction costs in addition to lead times for construction of Network

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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. As the ATC is insufficient to provide reliable Transmission Service to the Transmission Customer and to maintain reliability for existing firm services, SPP deemed the Deferral of Service applicable to this request for Transmission Service.

In the deferral case per SPP OATT 15.5 given the results of the Impact Study SPP-2000-108, Network Upgrades that were identified as required to provide the deferred Transmission Service are listed in <u>Tables 1</u> through <u>4</u>. <u>Table 1</u> includes the Network Upgrades and Costs assigned to the PRG to accommodate Transmission Service Request 212202 from CSWS to Entergy. <u>Table 2</u> includes previously assigned Network Upgrades requiring only additional capacity to accommodate this request. <u>Table 3</u> includes previously assigned Network Upgrades requiring only accelerated in-service dates. <u>Table 4</u> includes previously assigned Network Upgrades requiring both additional capacity and accelerated in-service dates to accommodate this request.

Throughout the deferred transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$65,984,688 for Transmission Service Request 212202. 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 <u>Table 10</u>. The base rate transmission service charges are estimated to be \$16,642,800 and the monthly revenue requirements are listed in <u>Table 9</u>. As the base rate transmission service charges are less than the revenue requirements for the required Network Upgrades, the revenue requirements from the Transmission Customer are for the required Network Upgrades.

To complete the request for Transmission Service, SPP must receive the following items from the Transmission Customer within 15 days of receipt of this study: 1) an executed Service Agreement, and 2) an unconditional and irrevocable letter of credit regarding the engineering and construction of Network Upgrades. The Transmission Customer must also confirm this request, and its deferral with a reservation period from October 1, 2004 to October 1, 2007, on Southwest Power Pool's OASIS pursuant to the results of this Facilities Study. Upon receipt of these items 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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	 DATE NEEDED (M/D/Y)	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	SCHEDULED DATE IN SERVICE (M/D/Y) (2)
Chikaskia Tap To Braman 69KV: Ratings were updated by WFEC.	0	12/1/04		N/A
County Line 115/69 KV Transformer: Transmission Operating Directive 803 applicable per WR.	0	6/1/05		N/A
Ferndale Lake Tap To Pittsburg 69KV: Ratings were updated per CSWS.	0	12/1/04		N/A
Kerr To Kansas Tap 161KV: Ratings were updated per GRDA.	0	6/1/05		N/A
Lawrence Hill 230/115KV Transformer: Transmission Operating Directive 625 applicable per WR.	0	4/1/05		N/A
Midland 230/115KV Transformer: Reconfiguration of network due to failure of 161-115 kV transformers per WR.	0	12/1/04		N/A
Monett To Aurora HT 161KV: Reconductor project in progress by EDE.	0	6/1/05		12/31/02

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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)		DATE NEEDED (M/D/Y)	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	SCHEDULED DATE IN SERVICE (M/D/Y) (2)
Reinmiller 161/69KV Transformer: Upgrade excluded as upgrading Joplin SW 161/69 eliminates this constraint.	0	13	6/1/04	5/1/03	N/A
South Gage To Auburn 115KV CKT 1: No upgrade required as documented contingency not applicable per WR.	0		6/1/05		N/A
Tinker #4 To Tinker #2 138KV: Relaying eliminates overload per OKGE.	0		6/1/05		N/A
Wallace Lake To International Paper 138KV: Dolet Hills operating guide effective per CSWS.	0		6/1/05		N/A
Wallace Lake To South Shreveport 138KV: Dolet Hills operating guide effective per CSWS.	0		6/1/05		N/A
West Gardner To La Cygne 345KV: Adding second LaCygne to Stilwell line to eliminate overloads.	0		6/1/05		N/A

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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
East Centerton To Gentry REC 161KV: Rebuild 19.16 miles with 2156 ACSR by CSWS.	0	30	6/1/05	5/16/04	N/A, CSWS Increased Ratings
Eureka Springs To Beaver Dam 161KV: Recond. 1.25 miles with 1590 ACSR by CSWS.	0	12	1/1/03	4/1/03	N/A, CSWS Increased Ratings
Farmington AECC To Chamber Springs Rd 161KV: Replace Farmington Switch by CSWS.	60,000	9	6/1/05	1/1/03	6/1/05
Fulton To Patmos 115KV: Recond. 7.1 miles with 1272 ACSR by CSWS.	2,100,000	18	1/1/03	5/16/03	6/1/04
Gentry REC To Flint Creek 161KV: Rebuild 1.09 miles with 2156 ACSR. Replace wavetrap jumpers by CSWS.	0	12	6/1/05	4/1/03	N/A, CSWS Increased Ratings
Lake Elmdale To Chamber Springs Rd 161KV: Rebuild 15 miles with 1590 ACSR by CSWS.	0	24	6/1/06	4/1/04	N/A, CSWS Increased Ratings
Lone Star South To Wilkes 138KV: Reset CTs by CSWS.	2,000	3	6/1/04	2/14/02	6/1/05
S Fayetteville To Greenland 69KV: Replace 4/0 CU jumpers @ Greenland by CSWS.	20,000	9	6/1/05	1/1/03	6/1/05
S Texarkana REC To Texarkana Plant 69KV: Rebuild 5.92 miles of 266 ACSR with 795 ACSR. Replace 4/0 CU jumpers @ Texarkana Plant by CSWS.	0	15	6/1/06	2/14/03	N/A, CSWS Increased Ratings

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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
Scrogns To Ferndale Lake Tap 69KV: Rebuild 6.53 miles with 1272 ACSR by CSWS.	0	15	6/1/06	2/14/03	N/A, CSWS Increased Ratings
Snyder To Frederick JCT 69KV: Reset Frederick Jct. CTs by CSWS.	2,000	3	6/1/06	2/14/02	6/1/05
Wilburton To Lone Oak 69KV: Replace 400A line switch # 4839 by CSWS.	60,000	9	6/1/04	1/1/03	6/1/05
Winnsboro To Scrogns 69KV: Replace switches, 350 CU jumpers, & reset relays @ Winnsboro by CSWS.	80,000	9	6/1/05	1/1/03	6/1/05
IPC JEFFERSON TO LIEBERMAN 138KV: Replace switches @ Lieberman by CSWS.	60,000	9	4/1/03	2/1/03	4/1/05
LONGWOOD TO NORAM, 138KV: Reconductor 4.66 miles of bundled 266 ACSR with 1590 ACSR by CSWS.	0	15	6/1/03	2/14/03	N/A, CSWS Increased Ratings
NORAM TO RAINES, 138KV: Rebuild 5.58 miles of 2-266 ACSR with 1590 ACSR by CSWS.	0	18	6/1/03	5/16/03	N/A, CSWS Increased Ratings
TATUM TO ROCKHILL, 138KV: Reset CTs @ Rock Hill by CSWS.	2,000	3	6/1/06	2/14/02	6/1/06

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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
Cherokee REC - Knox Lee 138kV: Reconductor 3.25 miles of 666 ACSR with 1272 ACSR by CSWS.	981,000	12	6/1/03	4/1/03	6/1/05
Cherokee REC - Tatum 138kV: Reconductor 6.25 miles of 666 ACSR with 1272 ACSR by CSWS.	1,641,000	18	6/1/03	5/16/03	6/1/05
Rock Hill - Tatum 138kV: Reconductor 0.81 miles 666MCM to 1272 ACSR by CSWS.	342,970	12	6/1/03	4/1/03	6/1/05
Lieberman - IPC Jefferson 138kV: Reconductor 26.35 miles of 336 ACSR with 795 ACSR by CSWS.	7,172,000	30	4/1/03	5/16/04	4/1/05

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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
Diamond JCT. To Sarcoxie Southwest Tap 69KV: Recond. 1/0 CU with 336 ACSR by EDE.	1,230,000	18	6/1/04	5/16/03	6/1/05
Joplin Southwest 161/69KV Transformer: Replace with 150MVA unit by EDE.	1,565,000	13	6/1/04	5/1/03	6/1/05
Pensacola To Gray Tap 69KV: Rebuild 4/0 to 795MCM by GRDA.	730,000	18	6/1/04	5/16/03	6/1/05
LA CYGNE TO STILWELL 345KV: Add second LaCygne- Stilwell 345kV line and add LaCygne and Stilwell terminals by KCPL.	17,000,000	36	1/1/03	11/14/04	12/1/04
Draper 345/138KV XF: Mod. Draper Substation & Convert to 1 1/2 Breaker & Add 3rd 493 MVA XF by OKGE.	8,000,000	30	4/1/03	5/16/04	4/1/05
Park Lane To Seminole 138KV: Replace 1200Ct and 1600 Amp switch with 2000Amp equipment by OKGE.	100,000	12	6/1/06	4/1/03	6/1/06
Tahlequah To Highway 59 161KV: Remove switches #130 and #132 to increase rating from 600A to conductor limit of 662 Amps for Rate B and replace structures by OKGE.	30,000	12	6/1/06	4/1/03	6/1/06

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.

				DOCCIDIE	COLEDINED
NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
Pecan Creek 345/161KV Transformer: Add 2nd 345/161 kV 369MVA unit by OKGE.	3,000,000	30	1/1/03	5/16/04	12/1/04
Eureka Springs To Beaver Dam 161KV: Reconductor 6 miles of 795 ACSR with 1590 ACSR. Reconnect CT's to 1000:5 Tap on Bkrs 42 32 & half or 22. Replace metering & reset relays for Line 2 & Line 3 by SPA.		18	1/1/03	5/16/03	6/1/04
Gore To Sallisaw 161KV: Increase clearances of approximately ten spans by SPA.	500,000	12	6/1/03	4/1/03	6/1/05
Muskogee Tap To Gore 161KV: Recond. 16 miles with 795 ACSR by SPA.	4,000,000	18	6/1/06	5/16/03	6/1/06
Midway To Bull Shoals 161KV: Replace disconnect switches, metering CTs and wave trap at Bull Shoals by SPA.	150,000	12	6/1/03	4/1/03	6/1/05
NORFORK TO BUFORD TAP 161KV: Resag conductor and replace structures as necessary by SPA.	250,000	6	6/1/04	5/16/02	6/1/05
BUFORD TAP TO BULL SHOALS, 161KV: Replace three 600A switches @ Bull Shoals w/ 1200 A switches. Resag conductor and replace structures as necessary to achieve 195 MW rating by SPA.	150,000	6	6/1/03	5/16/02	6/1/05

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.

<sup>(2)</sup> 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.

NETWORK UPGRADE	ENGINEERING & CONSTRUCTION COSTS (\$2001)	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)
Franklin Switch To Midwest Tap 138KV: Replace 600A metering CTs with 1200A by WFEC.	55,000	9	6/1/06	1/1/03	6/1/06
Southwest Station To Anadarko 138KV: Replace bus, jumpers, switches, supports and foundations at Anadarko Switch Station by WFEC.	450,000	12	6/1/03	4/1/03	6/1/05
Pharoah To Weleetka 138KV: Replace wavetrap at Weleetka and replace jumpers by WFEC.	75,000	4	6/1/05	3/16/02	6/1/05
Gill Energy Center East To Macarthur 69KV: Replace sub bus and jumpers at MacArthur 69 kV by WR.	22,000	12	6/1/04	4/1/03	6/1/05
Gill Energy Center East To Oatville 69KV: Replace disconnect switches at Gill 69 kV (use 800 A.), Replace line switch at Oatville 69 kV (use 800 A.) by WR.	45,000	12	6/1/05	4/1/03	6/1/05
Hoyt HTI Switching JCT To Circleville 115KV: Replace 82 structures by WR.	742,000	6	1/1/03	5/16/02	6/1/04
South Coffeyville To Dearing 138 KV: Replace wave trap to increase rating to conductor rating (2000 A) by WR.	20,000	12	6/1/03	4/1/03	6/1/05
SUBTOTAL	\$52,459,470				

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.

### Table 2 – Deferral Case

### Estimated Network Upgrade Costs, Lead Times & In-Service Dates For Previously Assigned Facilities Requiring Only Additional Capacity For Request 212202 From CSWS To Entergy During The Period From October 1, 2004 To October 1, 2007

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			- 0013 (ψ)		(1101(1115)		
SUBTOTAL			\$0	\$0			

### Table 3 – Deferral Case

### Estimated Network Upgrade Costs, Lead Times & In-Service Dates For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates For Request 212202 From CSWS To Entergy During The Period From October 1, 2004 To October 1, 2007

PREVIOUSLY ASSIGNED NETWORK UPGRADE	PREVIOUS REQUEST (NO.)	ENGINEERING & CONSTRUCTION COSTS (\$)	ENG. & CONST. LEAD TIME (MONTHS)	DATE NEEDED (M/D/Y)	DATE IN SERVICE	POSSIBLE DATE IN SERVICE (M/D/Y) (1)	DATE IN SERVICE
Lake Elmdale To Dyess 161KV CKT 2: Rebuild 4 miles of 2-397 ACSR with 2156 ACSR. IN 10 year plan scheduled for 2009 by CSWS.	Transmission Owner	1,600,000	15	6/1/05	6/1/09	2/14/03	6/1/05
Chestnut To Enid 69KV: Install 138-69kV transformer @NE Enid. No cost to customer by OKGE.	Transmission Owner	0		6/1/04	6/1/04	6/1/04	6/1/04
Helberg 161/69KV Transformer: Construct 69kV line from Short Mountain to Prairie View by OKGE.	Transmission Owner	0	42	6/1/06	6/1/05	5/16/05	6/1/05
Muskogee 161/69KV Transformer 1: Transfer load to 161kV system by OKGE.	Transmission Owner	0	20	6/1/04	6/1/03	2/1/2004	6/1/04

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.

### Table 3 – Deferral Case (Continued)

### Estimated Network Upgrade Costs, Lead Times & In-Service Dates For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates For Request 212202 From CSWS To Entergy During The Period From October 1, 2004 To October 1, 2007

PREVIOUSLY ASSIGNED	PREVIOUS	ENGINEERING	ENG. &	DATE	PREVIOUS	POSSIBLE	SCHEDULED
NETWORK UPGRADE	REQUEST	&	CONST.	NEEDED	DATE IN	DATE IN	DATE IN
	(NO.)	CONSTRUCTION	LEAD TIME	(M/D/Y)	SERVICE	SERVICE	SERVICE
		COSTS (\$)	(MONTHS)		(M/D/Y)	(M/D/Y) (1)	(M/D/Y) ( <b>2</b> )
Larussel To Springfield 161KV: Replace 3 600A disconnect switches with 1200A at Springfield. Planned to upgrade in 2007 by SPA.	Transmission Owner	60,000	8	6/1/06	6/1/07	12/1/02	6/1/06
Norfork 161/69KV Transformer: Replace unit by SPA.	Transmission Owner	1,000,000	18	6/1/04	6/1/05	5/16/03	6/1/04
SUBTOTAL		\$2,660,000					

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.

### **Table 4 – Deferral Case**

### Estimated Network Upgrade Costs, Lead Times & In-Service Dates For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates For Request 212202 From CSWS To Entergy During The Period From October 1, 2004 To October 1, 2007

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

# Table 5 – Deferral CaseNetwork Elements Assigned To Previous Requests For Transmission ServiceThat Limit The ATC To Less Than That RequestedDue To Engineering And Construction SchedulesFor Request 212202 From CSWS To EntergyDuring The Period From October 1, 2004 To October 1, 2007

		(YEAR)

### ATC Models

Example Season Designation:From Date – To Date (M/D/Y), Season Description02AP:4/1/02 - 6/1/02, Spring Minimum02FA:10/1/02 - 12/1/02, Fall Peak02SR:4/1/02 - 6/1/02, Spring Peak02WP:12/1/02 - 4/1/03, Winter Peak02SP:6/1/02 - 10/1/02, Summer Peak

### Table 6 – Deferral Case 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 212202 From CSWS To Entergy During The Period From October 1, 2004 To October 1, 2007

NETWORK UPGRADE	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
NONE				
		11 1	1. 15 2001 :	

Note: Date In Service is based on items received by November 15, 2001 including 1) a signed Service Agreement and letter of credit 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
02SR: 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	

PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCULATED		POSSIBLE		SCHEDULED
NETWORK ELEMENT Request 163958 SPP-2000-	TRANS. OWNER	ATC (MW) contract da	ATC (MODEL) ate of 1/1/200	DATE UPGRADE NEEDED (M/D/Y) 1.	ENG. & CONST. LEAD TIME (MONTH)	DATE AVAIL- ABLE (M/D/Y)	DELAY (MONTH)	DATE AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
Flint Creek - Gentry 161kV Switch	CSWS	227 (3)	06SP	6/1/04	6	7/2/01		2/1/02		6/1/04
Request 150680, SPP-2000	-086, with a	contract d	late of 4/15/20	001.						
Rock Hill – Tatum 138kV: Replace wavetrap with 2000A unit.	CSWS	670	04SP	6/1/01	6	10/14/01	4.5	2/1/02	8	4/1/02

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.

PREVIOUS OR TH RESERVATION		THIS RESERVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE		SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202,		, ,		× /		. ,	(1101(111)			(1,2,2,1)
Pecan Creek 345/161KV XF: Add 2nd 345/161 kV 369MVA unit.	OKGE	525 (3)	03G	1/1/03	30	5/16/04	16.5	5/16/04	16.5	12/1/04
Draper 345/138KV XF: Modify Sub & Convert to 1 <sup>1</sup> / <sub>2</sub> Breaker and add 3rd 493 MVA transformer.	OKGE	12 (3)	03G	4/1/03	30	5/16/04	13.5	5/16/04	13.5	4/1/05
Hoyt HTI Switching JCT To Circleville 115KV: Replace 82 structures.	WR	129 (3)	03G	1/1/03	6	5/16/02		5/16/02		6/1/04
IPC JEFFERSON TO LIEBERMAN 138KV: Replace switches at Lieberman.	CSWS	581 (3)	03G	4/1/03	9	8/15/02		2/1/03		4/1/05

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.

	PREVIOUS OR THIS RESERVATION RESERVAT			PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE		SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE	DELAY	DATE AVAILABLE
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(1) (M/D/Y)	(1) (MONTH)	(2) (M/D/Y)
This Reservation, 212202, For 670MW Transfer, SPP-2000-108-3, With A Contract Date Of 11/15/01. (Continued).										
IPC JEFFERSON TO LIEBERMAN 138KV: Reconductor 26.35 miles.	CSWS	581 (3)	03G	4/1/03	30	5/16/04	13.5	5/16/04	13.5	4/1/05
Minimum 4/1 - 6/1, 2003:		12								
Minimum 4/1 - 5/1, 2004:		12								
Minimum 5/1 - 6/1, 2004:		670								

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.

PREVIOUS OR TH RESERVATION		THIS RESERVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE		SCHEDULED
				DATE	ENG. &	DATE		DATE		DATE
				UPGRADE	CONST.	AVAIL-		AVAILABLE	DELAY	AVAILABLE
	TRANS.	ATC	ATC	NEEDED	LEAD TIME	ABLE	DELAY	(1)	(1)	(2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ontract Date Of 1	1/15/01. (Contin	nued).			
IPC Jefferson -		360								
Lieberman 138kV	CSWS	(3)	04SP	4/1/03	30	5/16/04	13.5	5/16/2004	13.5	4/1/2005
Reconductor 26.35 miles.		(3)								
Cherokee REC - Knox										
Lee 138kV Reconductor	CSWS	670	04SP	6/1/03	12	11/15/02		4/1/2003		6/1/2005
3.25 miles of 666 ACSR	CSWS	(4)	045P	0/1/05	12	11/13/02		4/1/2005		0/1/2003
with 1272 ACSR.										
Cherokee REC - Tatum										
138kV Reconductor 6.25	CSWS	670	04SP	6/1/03	18	5/16/03		5/16/2003		6/1/2005
miles of 666 ACSR with	CSWS	(4)	0451	0/1/05	10	5/10/05		5/10/2005		0/1/2003
1272 ACSR.										
Rock Hill - Tatum 138kV		670								
Record 0.81 miles	CSWS		04SP	6/1/03	12	11/15/02		4/1/2003		6/1/2005
666MCM to 1272 ACSR.		(4)								

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) Based on upgrades in service.

PREVIOUS OR TH RESERVATION			THIS RVATION	PREVIOUS OR THIS RESERVATION		CALCU	LATED	POSSI	BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Eureka Springs To Beaver Dam 161KV: SWPA: Reconductor 6 miles with 1590 ACSR. Reconnect CT's on Bkrs 42 32 & half or 22. Replace metering & reset relays for Line 2 & 3.	SWPA	218 (3)	04SP	1/1/2003	18	5/16/2003	4.5	5/16/2003	4.5	6/1/2004
Eureka Springs To Beaver Dam 161KV: AEPW: Reconductor 1.25 mile w/ 1590 ACSR.	CSWS	670	04SP	1/1/2003	12	11/15/2002		4/1/2003	3.0	N/A, CSWS Increased Capacity Ratings
Fulton To Patmos 115KV: Reconductor 7.1 miles with 1272 ACSR.	CSWS	25 (3)	04SP	1/1/2003	18	5/16/2003	4.5	5/16/2003	4.5	6/1/2004
Pecan Creek 345/161KV XF: Add 2nd 345/161 kV 369MVA unit.	OKGE	68 (3)	04SP	1/1/2003	30	5/16/2004	16.5	5/16/2004	16.5	12/1/2004

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.

PREVIOUS OR TH RESERVATION			THIS RVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Hoyt HTI Switching JCT To Circleville 115KV: Replace 82 structures.	WR	18 (3)	04SP	1/1/2003	6	5/16/2002		5/16/2002		6/1/2004
IPC JEFFERSON TO LIEBERMAN 138KV: Replace switches @ Lieberman.	CSWS	360 (3)	04SP	4/1/2003	9	8/15/2002		2/1/2003		4/1/2005
BUFORD TAP TO BULL SHOALS 161KV: Replace three 600A switches @ Bull Shoals w/ 1200 A switches. Resag conductor and replace structures as necessary to achieve 195 MW rating.	SPA	0 (3)	04SP	6/1/2003	6	5/16/2002		5/16/2002		6/1/2005

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(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.

PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE (1)	DELAY (1)	DATE AVAILABLE (2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Gore To Sallisaw 161KV: Increase clearances of approximately ten spans to allow operation of line at 100C.	SPA	388 (3)	04SP	6/1/2003	12	11/15/2002		4/1/2003		6/1/2005
LONGWOOD TO NORAM 138KV: Reconductor 4.66 miles of bundled 266 ACSR with 1590 ACSR.	CSWS	670	04SP	6/1/2003	15	2/14/2003		2/14/2003		N/A, CSWS Increased Capacity Ratings
Midway To Bull Shoals 161KV: Replace disconnect switches, metering CTs and wave trap at Bull Shoals by SWPA.	SPA	299 (3)	04SP	6/1/2003	12	11/15/2002		4/1/2003		6/1/2005
NORAM TO RAINES 138KV: Rebuild 5.58 miles of 2-266 ACSR with 1590 ACSR.	CSWS	670	04SP	6/1/2003	18	5/16/2003		5/16/2003	145	N/A, CSWS Increased Capacity Ratings

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- (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.

PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE (1)	DELAY (1)	DATE AVAILABLE (2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(1) (M/D/Y)	(MONTH)	(2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
South Coffeyville To Dearing 138 KV: Replace wave trap to increase rating to conductor rating by WR (2000 A).	WR	313 (3)	04SP	6/1/2003	12	11/15/2002		4/1/2003		6/1/2005
SW Station To Anadarko 138KV: Replace bus, jumpers, switches, supports and foundations at Anadarko Switch Station by WFEC.	WFEC	18 (3)	04SP	6/1/2003	12	11/15/2002		4/1/2003		6/1/2005
Wallace Lake To South Shreveport 138KV: Dolet Hills Op. Guide.	CSWS	670	04SP	6/1/2003						N/A
LA CYGNE TO STILWELL 345KV: Add second LaCygne- Stilwell 345kV line and add LaCygne and Stilwell terminals.	KACP	0 (3)	04SP	1/1/2003	36	11/14/2004	22.5	11/14/2004	22.5	12/1/2004

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(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.

PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
		ATTC		DATE UPGRADE	ENG. & CONST.	DATE AVAIL-		DATE AVAILABLE	DELAY	DATE AVAILABLE
NETWORK ELEMENT	TRANS. OWNER	ATC (MW)	ATC (MODEL)	NEEDED (M/D/Y)	LEAD TIME (MONTH)	ABLE (M/D/Y)	DELAY (MONTH)	(1) (M/D/Y)	(1) (MONTH)	(2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			· · · · · · · · · · · · · · · · · · ·
Chestnut To Enid 69KV: Install 138-69kV transformer @NE Enid.	OKGE	495 (3)	04SP	6/1/2004				6/1/2004		6/1/2004
County Line 115/69 KV Transformer: Operating Directive 803.	WR	670	04SP	6/1/2004						N/A
Diamond JCT. To Sarcoxie Southwest Tap 69KV: Reconductor 1/0 Copper with 336 ACSR.	EDE	447 (3)	04SP	6/1/2004	18	5/16/2003		5/16/2003		6/1/2005
Ferndale Lake Tap To Pittsburg 69KV: Ratings updated.	CSWS	670	06SP	6/1/2004						N/A
Gill Energy Center East To Macarthur 69KV: Replace substation bus and jumpers at MacArthur 69 kV.	WR	441 (3)	04SP	6/1/2004	12	11/15/2002		4/1/2003		6/1/2005
Joplin SW 161/69KV XF: Replace 161/69 KV unit with 150 MVA.	EDE	334 (3)	04SP	6/1/2004	13	12/15/2002		5/1/2003		6/1/2005

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- (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.
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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE (1)	DELAY (1)	DATE AVAILABLE (2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Lone Star South To Wilkes 138KV: Reset CTs.	CSWS	195 (3)	04SP	6/1/2004	3	2/14/2002		2/14/2002		6/1/2005
Muskogee 161/69KV Transformer 1: Upgrade cost not assigned.	OKGE	392 (3)	04SP	6/1/2004	20	7/16/2003		2/1/2004		6/1/2004
Norfork 161/69KV Transformer: Replace Transformer	SPA	469 (3)	04SP	6/1/2004	18	5/16/2003		5/16/2003		6/1/2004
NORFORK TO BUFORD TAP 161KV: Resag conductor and replace structures.	SPA	652 (3)	04SP	6/1/2004	6	5/16/2002		5/16/2002		6/1/2005
Pensacola To Gray Tap 69KV: Rebuild 4/0 to 795MCM.	GRDA	198 (3)	04SP	6/1/2004	18	5/16/2003		5/16/2003		6/1/2005
Reinmiller 161/69KV XF: Upgrading Joplin SW eliminates constraint.	EDE	670	04SP	6/1/2004	13	12/15/2002		5/1/2003		N/A

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
				DATE UPGRADE	ENG. & CONST.	DATE AVAIL-		DATE AVAILABLE	DELAY	DATE AVAILABLE
	TRANS.	ATC	ATC	NEEDED	LEAD TIME	ABLE	DELAY	(1)	(1)	(2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
South Gage To Auburn 115KV CKT 1: Invalid contingency.	WR	670	04SP	6/1/2004						N/A
Tinker #4 To Tinker #2 138KV: Overload prevented by relaying.	OKGE	670	04SP	6/1/2004						N/A
Wallace Lake To International Paper 138KV: Dolet Hills operating guide.	CSWS	670	04SP	6/1/2004						N/A
WEST GARDNER TO LA CYGNE 345KV: Add second LaCygne- Stilwell 345kV line eliminates overload.	KACP	361 (3)	04SP	6/1/2004				11/14/2004	5.5	12/1/2004
Wilburton To Lone Oak 69KV: Replace 400A line switch # 4839.	CSWS	517 (3)	04SP	6/1/2004	9	8/15/2002		1/1/2003		6/1/2005

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
				DATE UPGRADE	ENG. & CONST.	DATE AVAIL-		DATE AVAILABLE	DELAY	DATE AVAILABLE
	TRANS.	ATC	ATC	NEEDED	LEAD TIME	ABLE	DELAY	(1)	(1)	(2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Farmington AECC To Chamber Springs Rd 161KV: Replace Farmington switch.	CSWS	105 (3)	06SP	6/1/2005	9	8/15/2002		1/1/2003		6/1/2005
Kerr To Kansas Tap 161KV: Ratings updated.	GRDA	670	06SP	6/1/2005						N/A
S Fayetteville To Greenland 69KV: Replace 4/0 CU jumpers @ Greenland.	CSWS	31 (3)	06SP	6/1/2005	9	8/15/2002		1/1/2003		6/1/2005
East Centerton To Gentry REC 161KV: Rebuild 19.16 miles of 2-397.5 ACSR with 2156 ACSR.	CSWS	670	06SP	6/1/2005	30	5/16/2004		5/16/2004		N/A, CSWS Increased Capacity Ratings
Franklin Switch To Midwest Tap 138KV: Replace metering CTs with 1200A by WFEC.	WFEC	530 (3)	06SP	6/1/2006	9	8/15/2002		1/1/2003		6/1/2006

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Gentry REC To Flint Creek 161KV: Rebuild 1.09 miles of 2-397.5 ACSR with 2156 ACSR. Replace wavetrap jumpers.	CSWS	670	06SP	6/1/2005	12	11/15/2002		4/1/2003		N/A, CSWS Increased Capacity Ratings
Gill Energy Center East To Oatville 69KV: Replace disconnect switches at Gill (use 800 A.) & Replace line switch at Oatville (use 800 A.).	WR	460 (3)	06SP	6/1/2005	12	11/15/2002		4/1/2003		6/1/2005
Helberg 161/69KV XF: Upgrade not assigned.	OKGE	456 (3)	06SP	6/1/2006	42	5/16/2005		5/16/2005		6/1/2005
Lake Elmdale To Chamber Springs Rd 161KV: Rebuild 15 miles of 666 ACSR with 1590 ACSR.	CSWS	670	06SP	6/1/2006	24	11/15/2003		4/1/2004	145 1	N/A, CSWS Increased Capacity Ratings

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202, 1		. , ,	,	, , ,		, i	× /	(1VI/D/1)		$(\mathbf{W} / \mathbf{D} / 1)$
Lake Elmdale To Dyess 161KV CKT 2: Rebuild 4 miles of 2-397 ACSR with 2156 ACSR.	CSWS	0 (3)	06SP	6/1/2005	15	2/14/2003		2/14/2003		6/1/2005
Larussel To Springfield 161KV: Replace 3 600A disconnect switches with 1200A at Springfield.	SPA	397 (3)	06SP	6/1/2006	8	7/16/2002		12/1/2002		6/1/2006
Muskogee Tap To Gore 161KV: Reconductor 16 miles of 477 ACSR line with 795 ACSR.	SPA	627 (3)	06SP	6/1/2006	18	5/16/2003		5/16/2003		6/1/2006
Park Lane To Seminole 138KV: Replace 1200Ct and 1600 Amp switch with 2000Amp equip.	OKGE	552 (3)	06SP	6/1/2006	12	11/15/2002		4/1/2003		6/1/2006
Pharoah To Weleetka 138KV: Replace wavetrap at Weleetka and replace jumpers.	WFEC	183 (3)	06SP	6/1/2005	4	3/16/2002		3/16/2002		6/1/2005

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
S Texarkana REC To Texarkana Plant 69KV: Rebuild 5.92 miles with 795 ACSR & Replace 4/0 CU jumper at Tex. Plant.	CSWS	670	06SP	6/1/2006	15	2/14/2003		2/14/2003		N/A, CSWS Increased Capacity Ratings
Scrogns To Ferndale Lake Tap 69KV: Rebuild 6.53 miles of 477 ACSR with 1272 ACSR.	CSWS	670	06SP	6/1/2006	15	2/14/2003		2/14/2003		N/A, CSWS Increased Capacity Ratings
Snyder To Frederick JCT 69KV: Reset Frederick Jct. CTs.	CSWS	271 (3)	06SP	6/1/2006	3	2/14/2002		2/14/2002		6/1/2005
Tahlequah To Highway 59 161KV: Remove switches #130 and #132 to increase rating from 600A to conductor limit of 662 Amps and replace structures by OKGE.	OKGE	650 (3)	06SP	6/1/2006	12	11/15/2002		4/1/2003		6/1/2006

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				DATE UPGRADE	ENG. & CONST.	DATE AVAIL-		DATE AVAILABLE	DELAY	DATE AVAILABLE
NETWORK ELEMENT	TRANS. OWNER	ATC (MW)	ATC (MODEL)	NEEDED (M/D/Y)	LEAD TIME (MONTH)	ABLE (M/D/Y)	DELAY (MONTH)	(1) (M/D/Y)	(1) (MONTH)	(2) (M/D/Y)
This Reservation, 212202,				· · · /	· · · · · ·					
TATUM TO ROCKHILL 138KV: Reset CTs @ Rock Hill. ATC is 571 in 06SP.	CSWS	670 (3)	04SP	6/1/2006	3	2/14/2002		2/14/2002		6/1/2006
Winnsboro To Scrogns 69KV: Replace switches & 350 CU jumpers & reset relays @ Winnsboro.	CSWS	526 (3)	06SP	6/1/2005	9	8/15/2002		1/1/2003		6/1/2005
Minimum 6/1 - 10/1 2003:		0								
Minimum 6/1 - 10/1 2004:		0								
Minimum 6/1 - 10/1 2005:		670								
Minimum 6/1 - 10/1 2006:		670								

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PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
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 AVAILABLE (1) (M/D/Y)	DELAY (1) (MONTH)	DATE AVAILABLE (2) (M/D/Y)
This Reservation, 212202, 1	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).			
Eureka Springs To Beaver Dam 161KV: SWPA: Reconductor 6 miles with 1590 ACSR. Reconnect CT's on Bkrs 42 32 & half or 22. Replace metering & reset relays for Line 2 & 3.	SPA	370 (3)	04WP	1/1/2003	18	5/16/2003	4.5	5/16/2003	4.5	6/1/2004
Eureka Springs To Beaver Dam 161KV: AEPW: Reconductor 1.25 miles of 795 ACSR with 1590 ACSR.	CSWS	670	04WP	1/1/2003	12	11/15/2002		4/1/2003	3.0	N/A, CSWS Increased Capacity Ratings
Fulton To Patmos 115KV: Reconductor 7.1 miles with 1272 ACSR.	CSWS	32 (3)	04WP	1/1/2003	18	5/16/2003	4.5	5/16/2003	4.5	6/1/2004
Pecan Creek 345/161KV XF: Add 2nd 345/161 kV 369MVA unit.	OKGE	343 (3)	04WP	1/1/2003	30	5/16/2004	16.5	5/16/2004	16.5	12/1/2004

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

PREVIOUS OR TH RESERVATION			THIS RVATION		S OR THIS VATION	CALCU	LATED	POSSI	BLE	SCHEDULED
				DATE UPGRADE	ENG. & CONST.	DATE AVAIL-		DATE AVAILABLE	DELAY	DATE AVAILABLE
	TRANS.	ATC	ATC	NEEDED	LEAD TIME	ABLE	DELAY	(1)	(1)	(2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ntract Date Of 1	1/15/01. (Contin	nued).	•		
Hoyt HTI Switching JCT To Circleville 115KV: Replace 82 structures.	WR	97 (3)	04WP	1/1/2003	6	5/16/2002		5/16/2002		6/1/2004
LA CYGNE TO STILWELL 345KV: Add second LaCygne- Stilwell 345kV line and add LaCygne and Stilwell terminals.	KACP	216 (3)	04WP	1/1/2003	36	11/14/2004	22.5	11/14/2004	22.5	12/1/2004
Minimum 1/1/03 - 4/1/03:		32								
Minimum 12/1/03 - 4/1/04:		216								
Minimum 12/1/04 - 4/1/05:		670								
Minimum 12/1/05 - 4/1/06:		670								

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

PREVIOUS OR THIS RESERVATION		THIS RESERVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE		SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE (1)	DELAY (1)	DATE AVAILABLE (2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	For 670MW	Transfer,	SPP-2000-10	8-3, With A Co	ontract Date Of 1	1/15/01. (Conti	nued).			
Summary of seasonal ATC w/o upgrades:										
4/1 - 6/1 2003:	12									
4/1 - 6/1 2004:	12									
6/1 - 10/1 2003:	0									
6/1 - 10/1 2004:	0									
6/1 - 10/1 2005:	0									
1/1/03 - 4/1/03:	32									
12/1/03 - 4/1/04:	32									
12/1/04 - 4/1/05:	32									
Summary of annual ATC w/o upgrades:										
1/1 - 12/31 2003:	0									
1/1 - 12/31 2004:	0									
1/1 - 12/31 2005:	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.

(3) Not limiting as the scheduled completion of the upgrade is before it is required to accommodate this request for

PREVIOUS OR THIS RESERVATION		THIS RESERVATION		PREVIOUS OR THIS RESERVATION		CALCULATED		POSSIBLE		SCHEDULED
	TRANS.	ATC	ATC	DATE UPGRADE NEEDED	ENG. & CONST. LEAD TIME	DATE AVAIL- ABLE	DELAY	DATE AVAILABLE (1)	DELAY (1)	DATE AVAILABLE (2)
NETWORK ELEMENT	OWNER	(MW)	(MODEL)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)	(MONTH)	(M/D/Y)
This Reservation, 212202,	This Reservation, 212202, For 670MW Transfer, SPP-2000-108-3, With A Contract Date Of 11/15/01. (Continued).									
Summary of seasonal										
ATC with upgrades:										
4/1 - 5/16 2004:		12								
5/16 - 6/1 2004:		670								
6/1 - 10/1 2004:		0								
6/1 - 10/1 2005 & 2006:		670								
12/1/03 - 4/1/04:		216								
12/1/04 - 4/1/05:		670								
Summary of annual ATC with upgrades:										
1/1 - 10/1 2004:		0								
10/1 - 12/31 2004:		670								
1/1 - 12/31 2005:		670								
1/1 - 12/31 2006:		670								
1/1 - 10/1 2007:		670								

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 8 – Deferral Case**

## Summary Of Available Transfer Capability

## With All Network Upgrades Assigned To This And Previous Reservations

## For Request 212202 From CSWS To Entergy

## During The Period From October 1, 2004 To October 1, 2007

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2003	1/1-12/31	0
2004	1/1-10/1	0
2004	10/1 - 12/31	670
2005	1/1 - 12/31	670
2006	1/1 - 12/31	670
2007	1/1 - 10/1	670

Note: Values of ATC are based on items received by November 15, 2001 including 1) a signed Service Agreement and letter of credit 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 – Deferral Case**

### 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 212202 From CSWS To Entergy

#### During The Period From October 1, 2004 To October 1, 2007

OPERATING PERIOD (MONTH)	2004 ATC (MW)	2004 BASE RATE REVENUES (\$)	2005 ATC (MW)	2005 BASE RATE REVENUES (\$)	2006 ATC (MW)	2006 BASE RATE REVENUES (\$)	2007 ATC (MW)	2007 BASE RATE REVENUES (\$)
January	N/A	N/A	670	462,300	670	462,300	670	462,300
February	N/A	N/A	670	462,300	670	462,300	670	462,300
March	N/A	N/A	670	462,300	670	462,300	670	462,300
April	N/A	N/A	670	462,300	670	462,300	670	462,300
May	N/A	N/A	670	462,300	670	462,300	670	462,300
June	N/A	N/A	670	462,300	670	462,300	670	462,300
July	N/A	N/A	670	462,300	670	462,300	670	462,300
August	N/A	N/A	670	462,300	670	462,300	670	462,300
September	N/A	N/A	670	462,300	670	462,300	670	462,300
October	670	462,300	670	462,300	670	462,300	N/A	N/A
November	670	462,300	670	462,300	670	462,300	N/A	N/A
December	670	462,300	670	462,300	670	462,300	N/A	N/A
SUBTOTAL BY YEAR		\$1,386,900		\$5,547,600		\$5,547,600		\$4,160,700
TOTAL FOR ALL YEARS								\$16,642,800

Note: Values of ATC are based on items received by November 15, 2001 including 1) a signed Service Agreement and letter of credit 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 – Deferral Case**

### Summary Of Available Transfer Capability With All Network Upgrades

## And The Estimate Of Network Upgrade Revenue Requirements Only

## For Request 212202 From CSWS To Entergy

## During The Period From October 1, 2004 To October 1, 2007

OPERATING PERIOD (Month)	2004 ATC (MW)	2004 NETWORK UPGRADE REVENUES (\$)	2005 ATC (MW)	2005 NETWORK UPGRADE REVENUES (\$)	2006 ATC (MW)	2006 NETWORK UPGRADE REVENUES (\$)	2007 ATC (MW)	2007 NETWORK UPGRADE REVENUES (\$)
January	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
February	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
March	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
April	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
May	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
June	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
July	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
August	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
September	N/A	N/A	670	1,832,908	670	1,832,908	670	1,832,908
October	670	1,832,908	670	1,832,908	670	1,832,908	N/A	N/A
November	670	1,832,908	670	1,832,908	670	1,832,908	N/A	N/A
December	670	1,832,908	670	1,832,908	670	1,832,908	N/A	N/A
SUBTOTAL BY YEAR		\$5,498,724		\$21,994,896		\$21,994,896		\$16,496,172
TOTAL FOR ALL YEARS								\$65,984,688

Note: Values of ATC are based on items received by November 15, 2001 including 1) a signed Service Agreement and letter of credit 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 – Deferral Case**

Identified Third-Party Network Upgrades & Required In-Service Dates

To Accommodate This Request For Transmission Service

# For Request 212202 From CSWS To Entergy

### During The Period From October 1, 2004 To October 1, 2007

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
AECI: 52690 CARTHG 269.0 to 96649 2JASPER 69.0 CKT 1	6/1/05
AECI: 59471 NEO184 5 161 to 96748 2NEOSAC 69.0 CKT 1	6/1/05
AECI: 52690 CARTHG 269.0 to 96751 2REEDS 69.0 CKT 1	6/1/05
AECI: 96082 5GEORGE 161 to 96531 2GEORGE 69.0 CKT 1	12/1/04
AECI: 96098 5MOCITY 161 to 96153 1MOCTN1 100 CKT 1	12/1/04
AECI: 96120 5THMHIL 161 to 96172 2TMHILL 69.0 CKT 2	6/1/06
AECI: 96153 1MOCTN1 100 to 96304 2MOCITY 69.0 CKT 1	12/1/04
AECI: 96154 1MOCTN2 100 to 96098 5MOCITY 161 CKT 2	12/1/04
AECI: 96154 1MOCTN2 100 to 96304 2MOCITY 69.0 CKT 2	12/1/04
AMRN-AECI: 31221 MOBERLY 161 to 96120 5THMHIL 161 CKT 1	12/1/04
CELE-EES: 50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	12/1/04

## Table 11 – Deferral Case (Continued)

Identified Third-Party Network Upgrades & Required In-Service Dates

To Accommodate This Request For Transmission Service

# For Request 212202 From CSWS To Entergy

## During The Period From October 1, 2004 To October 1, 2007

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
EES-CELE: 99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	6/1/06
MIPU-AECI: 59216 BUTLER_5 161 to 96689 2BUTLER 69.0 CKT 1	6/1/06
MIPU-AECI: 59217 WINDSR 5 161 to 96071 5CLINTN 161 CKT 1	6/1/05
NPPD: 64181 MAXWELL7 115 to 64039 CALAWAY7 115 CKT 1	6/1/05
NPPD: 64265 ST.LIB 7 115 to 64173 LOUPCTY7 115 CKT 1	6/1/05
RCEC: 53549 JACKSNV4 138 to 53588 OVERTON4 138 CKT 1	6/1/05
SJLP: 69703 ST JOE 5 161 to 69701 MIDWAY 5 161 CKT 1	6/1/05