



# **SPP** *Southwest Power Pool*

*System Facilities Study  
For Transmission Service Requests  
194668 & 194669*

*By Constellation Power Source, Inc.*

*From Central And South West Services  
To Ameren*

*For The Reserved Amount Of 150MW*

*From 12/1/02 To 12/1/04*

*With Deferral To Optional  
Periods And Capacity Levels*

*SPP Transmission Planning  
(#SPP-2000-044-2)  
Revised August 22, 2001*

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**Southwest Power Pool**  
**Transmission Service Requests #194668 & 194669**  
**SPP System Facilities Study SPP-2000-044-2**

**Executive Summary**

At the request of Constellation Power Source, Inc. (CPS), the Southwest Power Pool developed this Facilities Study for the purpose of evaluating the financial characteristics of Transmission Service Requests 194668 and 194669. These requests are for 100MW and 50MW respectively of Firm Transmission Service from American Electric Power West (Central and South West Services) (CSWS) to Ameren (AMRN). The requested term of this Point-To-Point Service is from December 1, 2002 to December 1, 2004.

Given the results of SPP's base case analysis pursuant to the request for Transmission Service, the available transfer capability (ATC) 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 these requests for Transmission Service. As a result, an analysis documented as the Alternative #1 Deferral Case was conducted regarding the deferral of the reservation period until such time as 2 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, 2005.

The time frame in which 2 years of annual ATC, in the requested amounts totaling 150MW, is available is from October 1, 2005 to October 1, 2007. The projected base rate transmission service charges (excluding charges for ancillary services) are \$2,484,000 for the deferred reservation period based on the 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 \$34,995,336. As the estimated base rate transmission service charges are less

than the estimated revenue requirements for Network Upgrades, CPS 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 September 1, 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 September 1, 2001, then the ATC of the existing transmission system with Network Upgrades will have to be reevaluated. This reevaluation is required due to subsequent delays in scheduling engineering and construction for the required Network Upgrades.

In the Alternative Deferral Case #1 analysis, an unconditional and irrevocable letter of credit, in the amount of \$28,285,000, must be provided to the Transmission Provider 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 150MW.

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 Table 11. 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.

Alternatives were reviewed given the necessary Network Upgrade requirements to provide incremental levels of ATC. As a result, a total of 4 alternatives were evaluated to determine the total cost to the Transmission Customer by alternative given the applicable Network Upgrades. The analyses of Alternative Deferral Cases #1 through #3 are based

on ATC levels of 150MW, 90MW and 86MW respectively given the Network Upgrades for each. The analysis of Alternative Deferral Case #4 is based on ATC levels of 86MW and then 150MW. In alternative #1, 150MW of transmission capacity is available from October 1, 2005 to October 1, 2007 given the lead times for engineering and construction of the necessary Network Upgrades. In alternatives #2 and #3, 90MW and 86MW respectively of capacity with applicable Network Upgrades is available from March 1, 2004 to March 1, 2006. In alternative #4 with applicable Network Upgrades, 86MW of transmission capacity is available from October 1, 2004 to October 1, 2005, and 150MW is available from October 1, 2005 to October 1, 2006.

In Alternative Deferral Case #2, the time frame in which 2 years of annual ATC, in the amount of 90MW, is available is from March 1, 2004 to March 1, 2006. The projected base rate transmission service charges (excluding charges for ancillary services) are \$1,490,000 for the deferred reservation period based on the 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 \$6,075,984. As the estimated base rate transmission service charges are less than the estimated revenue requirements for Network Upgrades, CPS shall pay for the revenue requirements associated with the Network Upgrades.

In Alternative Deferral Case #2, an unconditional and irrevocable letter of credit, in the amount of \$4,820,000, must be provided to the Transmission Provider 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 90MW.

In Alternative Deferral Case #3, the time frame in which 2 years of annual ATC, in the amount of 86MW, is available is from March 1, 2004 to March 1, 2006. The projected base rate transmission service charges (excluding charges for ancillary services) are \$1,424,160 for the deferred reservation period based on the 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 \$3,843,312. As the estimated base rate transmission service charges are less than the estimated revenue requirements for Network Upgrades, CPS shall pay for the revenue requirements associated with the Network Upgrades.

In Alternative Deferral Case #3, an unconditional and irrevocable letter of credit, in the amount of \$3,020,000, must be provided to the Transmission Provider 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 86MW.

In Alternative Deferral Case #4, the time frame in which 1 year of annual ATC, in the amount of 86MW, is available is from October 1, 2004 to October 1, 2005. In addition, 1 year of annual ATC, in the amount of 150MW, is available from October 1, 2005 to October 1, 2006. The projected base rate transmission service charges (excluding charges for ancillary services) are \$1,954,080 for the deferred reservation period based on the 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 \$31,557,984. As the estimated base rate transmission service charges are less than the estimated revenue requirements for Network Upgrades, CPS shall pay for the revenue requirements associated with the Network Upgrades.

In Alternative Deferral Case #4, an unconditional and irrevocable letter of credit, in the amount of \$28,285,000, must be provided to the Transmission Provider 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 150MW.

## **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, administrative & general, operation & maintenance, allocation of general plant, 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.

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

The staff of SPP completed System Impact Study SPP-2000-044 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, Southwestern Power Administration (SPA), and Western Resources (WR) transmission systems. Due to the in-service dates of these Network Upgrades, some 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.

There are constraints identified in the System Impact Study that are not assigned to the Transmission Customer. For the Monett to Aurora 161kV line, a mitigation plan is in effect. The ATC with the existing Pecan Creek 345/161kV transformer is 113MW. Therefore, this constraint is only applicable in the 150MW option in the Alternative #1 Deferral Case. With the 345kV additions included in the System Impact Study models, the overload of this transformer is eliminated. As a result, an upgrade of this transformer is not required.

The Pensacola to Gray Tap 69kV is to be upgraded by the Grand River Dam Authority as documented in Facilities Study SPP-2000-004. The upgrade of the Carthage to Reeds 69kV line was previously assigned in Facilities Study SPP-2000-003. Kansas City Power & Light will upgrade the Stilwell to Lacygne 345kV line by approximately February 1, 2004. The Moberly to Overton 161kV line is considered to be an Ameren limit and must be reviewed when the customer obtains service on the Ameren system to complete the transmission path. Additional Network Upgrades may result.

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. In Alternative Deferral Cases #1 and #4 to accommodate 150MW, the estimated time to complete the engineering and construction of the first transfer-limiting facility in the summer peak period of 2004 is 48 months after CSWS begins designing its upgrades. CSWS's New Mountain to Wilkes 345kV transmission line has a 48-month construction lead-time. The constraint is due to the outage of the New Mountain to Diana 345kV lines during the 2004 summer peak period.

In Alternative Deferral Cases #2 and #3 to accommodate 90MW and 86MW respectively, the estimated time to complete the engineering and construction of the first transfer-limiting facility in the summer peak period of 2004 is 30 months after CSWS begins designing its upgrades. CSWS's IPC Jefferson to Lieberman 138kV transmission line has a 30-month construction lead-time and has been assigned to Facilities Study SPP-2000-043 of which is in the study mode. The constraint is due to the outage of the Longwood to Wilkes 345kV line.

In Alternative Deferral Cases #1 and #4 to accommodate 150MW, the minimum ATC to March 1, 2004 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. No capacity is available on a continuous annual basis through February 2004. 90MW of capacity is available on a continuous annual basis from March 2004 through September 2005. Thereafter, the requested capacity is available to accommodate this request for Transmission Service.

#### **Alternative #1 Deferral Case Per SPP OATT 15.5 For 150MW**

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, 4 analyses were conducted regarding the deferral of the

reservation period until such time as 2 years of annual Transmission Service may be provided at capacity levels based on ATC values specified in the System Impact Study. Given the results of these deferral case analyses, the start of Transmission Service may be deferred to at least March 1, 2004. The staff of SPP created the System Impact Study SPP-2000-044 that identified system limitations and required modifications to the SPP system necessary to provide the deferred Transmission Service in 2004.

In Alternative Deferral Case #1, 150MW of transmission capacity is available from October 1, 2005 to October 1, 2007. The Network Upgrades that were not assigned to a previous request and are required to provide the deferred Transmission Service are listed in Table 1. Network Upgrades will be required on the CSWS, SPA 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 Table 6.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this deferral of Transmission Service are listed in Table 2. To accommodate this deferral, one 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 Table 5.

Network Upgrades that were previously assigned and will require only accelerated in-service dates to accommodate this deferral of Transmission Service are listed in Table 3. To accommodate this deferral, no previously assigned Network Upgrades will require 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.

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 Table 4. 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 Tables 5 and 6. Seasonal and annual transfer limits given engineering and construction lead times are listed in Table 7. A summary of ATC throughout the deferred reservation period is included in Table 8.

Firm Point-To-Point Transmission Service may be provided to CPS in the amount requested after the New Mountain to Wilkes 345kV facility upgrades including stations are in service. If a completed Service Agreement is received by SPP on or before September 1, 2001, then the deferred Transmission Service may be provided on approximately October 1, 2005 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 System Impact Study are not met. However, SPP may accept a request for the deferred reservation period given that the ATC with Network Upgrades is either at least equal to the requested capacity or a lesser amount on a continuous annual basis given the available Network Upgrades. SPP accepts this deferral of Transmission Service given this allocation of capacity of which is equal to that requested starting October 1, 2005. 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, 2005 to October 1, 2007.

Tables 7, 8, 9 and 10 include lists of capacity values of which are equal to that requested through the deferred 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.

### **Alternative #2 Deferral Case Per SPP OATT 15.5 For 90MW**

In Alternative Deferral Case #2, 90MW of transmission capacity is available from March 1, 2004 to March 1, 2006. The Network Upgrades that were not assigned to a previous request and are required to provide the deferred Transmission Service are listed in Table 12. Network Upgrades will be required on the CSWS, SPA 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 Table 17.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this deferral of Transmission Service are listed in Table 13. 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 Table 16.

Network Upgrades that were previously assigned and will require only accelerated in-service dates to accommodate this deferral of Transmission Service are listed in Table 14. To accommodate this deferral, no previously assigned Network Upgrades will require 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.

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 Table 15. 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 Tables 16 and 17. Seasonal and annual transfer limits given engineering and construction lead times are listed in Table 18. A summary of ATC throughout the deferred reservation period is included in Table 19.

Firm Point-To-Point Transmission Service may be provided to CPS in the amount less than requested of 90MW after the Stilwell to Lacygne and IPC Jefferson to Lieberman facility upgrades are in service. If a completed Service Agreement is received by SPP on or before September 1, 2001, then the deferred Transmission Service may be provided on approximately March 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 System Impact Study are not met. However, SPP may accept a request for the deferred reservation period given that the ATC with Network Upgrades is either at least equal to the requested capacity or a lesser amount on a continuous annual basis given the available Network Upgrades. SPP accepts this deferral of Transmission Service given this allocation of capacity of which is less than that requested in the amount of 90MW starting March 1, 2004. Thereafter, only this capacity level of 90MW is available throughout the remainder of the deferred reservation period through February 2006 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 less than that requested in the amount of 90MW and only available from March 1, 2004 to March 1, 2006.

Tables 18, 19, 20 and 21 include lists of capacity values of which are less than that requested through the deferred reservation period. Table 20 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 21. The Transmission

Customer shall pay the higher of the base rate transmission service charges or the levelized revenue requirements for the Network Upgrades.

**Alternative #3 Deferral Case Per SPP OATT 15.5 For 86MW**

In Alternative Deferral Case #3, 86MW of transmission capacity is available from March 1, 2004 to March 1, 2006. The Network Upgrades that were not assigned to a previous request and are required to provide the deferred Transmission Service are listed in Table 23. Network Upgrades will be required on the SPA 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 Table 28.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this deferral of Transmission Service are listed in Table 24. 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 Table 27.

Network Upgrades that were previously assigned and will require only accelerated in-service dates to accommodate this deferral of Transmission Service are listed in Table 25. To accommodate this deferral, no previously assigned Network Upgrades will require 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.

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 Table 26. 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 Tables 27 and 28. Seasonal and annual transfer limits given engineering and construction lead times are listed in Table 29. A summary of ATC throughout the deferred reservation period is included in Table 30.

Firm Point-To-Point Transmission Service may be provided to CPS in the amount less than requested of 86MW after the Stilwell to Lacygne and IPC Jefferson to Lieberman facility upgrades are in service. If a completed Service Agreement is received by SPP on or before September 1, 2001, then the deferred Transmission Service may be provided on approximately March 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 System Impact Study are not met. However, SPP may accept a request for the deferred reservation period given that the ATC with Network Upgrades is either at least equal to the requested capacity or a lesser amount on a continuous annual basis given the available Network Upgrades. SPP accepts this deferral of Transmission Service given this allocation of capacity of which is less than that requested in the amount of 86MW starting March 1, 2004. Thereafter, only this capacity level of 86MW is available throughout the remainder of the deferred reservation period through February 2006 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 less than that requested in the amount of 86MW and only available from March 1, 2004 to March 1, 2006.

Tables 29, 30, 31 and 32 include lists of capacity values of which are less than that requested through the deferred reservation period. Table 31 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 32. The Transmission

Customer shall pay the higher of the base rate transmission service charges or the levelized revenue requirements for the Network Upgrades.

**Alternative #4 Deferral Case Per SPP OATT 15.5 For 86MW And Then 150MW**

In Alternative Deferral Case #4, 86MW of transmission capacity is available from October 1, 2004 to October 1, 2005, and then 150MW of transmission capacity is available from October 1, 2005 to October 1, 2006. The Network Upgrades that were not assigned to a previous request and are required to provide the deferred Transmission Service are listed in Table 34. Network Upgrades will be required on the CSWS, SPA 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 Table 39.

Network Upgrades that were previously assigned and will require only additional capacity to accommodate this deferral of Transmission Service are listed in Table 35. To accommodate this deferral, one previously assigned Network Upgrade 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 Table 38.

Network Upgrades that were previously assigned and will require only accelerated in-service dates to accommodate this deferral of Transmission Service are listed in Table 36. To accommodate this deferral, no previously assigned Network Upgrades will require 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.

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 Table 37. 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 Tables 38 and 39. Seasonal and annual transfer limits given engineering and construction lead times are listed in Table 40. A summary of ATC throughout the deferred reservation period is included in Table 41.

Firm Point-To-Point Transmission Service may be provided to CPS in the amount less than requested of 86MW after the Stilwell to Lacygne and IPC Jefferson to Lieberman facility upgrades are in service. If a completed Service Agreement is received by SPP on or before September 1, 2001, then the deferred Transmission Service may be provided on approximately October 1, 2004 given no unexpected delays in design, permitting, and construction. Firm Point-To-Point Transmission Service may be provided to CPS in the amount requested after the New Mountain to Wilkes 345kV facility upgrades including stations are in service. If a completed Service Agreement is received by SPP on or before September 1, 2001, then the deferred Transmission Service with the requested capacity level may be provided on approximately October 1, 2005 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 System Impact Study are not met. However, SPP may accept a request for the deferred reservation period given that the ATC with Network Upgrades is either at least equal to the requested capacity or a lesser amount on a continuous annual basis given the available Network Upgrades. SPP accepts this deferral of Transmission Service given this allocation of capacity of which is less than that requested in the amount of 86MW starting October 1, 2004 to October 1, 2005. Thereafter, the requested capacity of 150MW is available throughout the remainder of the deferred reservation period through September 2006 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 86MW of

which is available from October 1, 2004 to October 1, 2005 and 150MW of which is available from October 1, 2005 to October 1, 2006.

Tables 40, 41, 42 and 43 include lists of available capacity values of which are less than or equal to that requested through the deferred reservation period. Table 42 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 43. 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 Tables 11, 22, 33 and 44, the Transmission Customer is responsible for obtaining arrangements for the necessary upgrades of the facilities per Section 21.1 of the SPP OATT dependant upon the chosen alternative. 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 modeled facilities within SPP 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, administrative & general, operation & maintenance, allocation of general plant, 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 lesser of either 1) the respective remaining depreciation periods, or 2) the reservation period.
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 through 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, for only the period of time from the end-of-construction date of the new and earlier reservation to the end-of-construction date of the earlier of a) the reservation in which the project was originally assigned, or b) a reservation in which the project was previously expedited which has the earliest end-of-construction date.

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 through 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, for only the period of time from the end-of-construction date of the new and earlier reservation to the end-of-construction date of the earlier of a) the reservation in which the project was originally assigned, or b) a reservation in which the project was previously expedited which has the earliest end-of-construction date, 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 Southwest Power Pool and the affected transmission owners including CSWS, SPA and WR shall use due diligence to add necessary facilities or upgrade the Transmission System to provide the deferred Transmission Service, provided CPS 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 CPS per Section 19.7 of the SPP Open Access Transmission Service Tariff.

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 Alternative #1 Deferral Case for 150MW, Table 8 includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in Tables 5 and 6. 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 deferred Transmission Service are estimated to be \$2,484,000 throughout the transaction period.

The estimate of total revenue requirements listed in Table 10 for the required Network Upgrades throughout the deferred transaction period is \$34,995,336. 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 \$34,995,336 throughout the deferred transaction period.

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 \$28,285,000 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.

In Alternative #2 Deferral Case for 90MW, Table 19 includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in Tables 16 and 17. 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 20. The base rate transmission service charges from the deferred Transmission Service are estimated to be \$1,490,400 throughout the transaction period.

The estimate of total revenue requirements listed in Table 21 for the required Network Upgrades throughout the deferred transaction period is \$6,075,984. 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 \$6,075,984 throughout the deferred transaction period.

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 \$4,820,000 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.

In Alternative #3 Deferral Case for 86MW, Table 30 includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in Tables 27 and 28. 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 31. The base rate transmission service charges from the deferred Transmission Service are estimated to be \$1,424,160 throughout the transaction period.

The estimate of total revenue requirements listed in Table 32 for the required Network Upgrades throughout the deferred transaction period is \$3,843,312. 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 \$3,843,312 throughout the deferred transaction period.

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 \$3,020,000 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.

In Alternative #4 Deferral Case for 86MW and then 150MW, Table 41 includes a summary of ATC values with all assigned Network Upgrades energized by the Date In Service specified in Tables 38 and 39. 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 42. The base rate transmission service charges from the deferred Transmission Service are estimated to be \$1,954,080 throughout the transaction period.

The estimate of total revenue requirements listed in Table 43 for the required Network Upgrades throughout the deferred transaction period is \$31,557,984. 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 \$31,557,984 throughout the deferred transaction period.

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 \$28,285,000 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-2000-044, 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 and alternative levels of capacity. 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 Alternative #1 Deferral Case for 150MW per SPP OATT 15.5 given the results of the Impact Study SPP-2000-044, Network Upgrades that were identified as required to provide the deferred Transmission Service are listed in Tables 1 through 4. Table 1 includes the Network Upgrades and Costs assigned to the CPS to accommodate Transmission Service Requests 194668 and 194669 from CSWS to Ameren. 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 this deferred transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$34,995,336 for Transmission Service Requests 194668 and 194669. 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 \$2,484,000 and the monthly revenue requirements are listed in Table 9. 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 in the amount of \$28,285,000. The Transmission Customer must also confirm this request, and its deferral with a reservation period from October 1, 2005 to October 1, 2007, on Southwest Power Pool's OASIS pursuant to the results of this Facilities Study.

In the Alternative #2 Deferral Case for 90MW per SPP OATT 15.5 given the results of the Impact Study SPP-2000-044, Network Upgrades that were identified as required to provide the deferred Transmission Service are listed in Tables 12 through 15. Table 12 includes the Network Upgrades and Costs assigned to the CPS to only accommodate Transmission Service Request 194668 from CSWS to Ameren. Table 13 includes previously assigned Network Upgrades requiring only additional capacity to accommodate this request. Table 14 includes previously assigned Network Upgrades requiring only accelerated in-service dates. Table 15 includes previously assigned Network Upgrades requiring both additional capacity and accelerated in-service dates to accommodate this request.

Throughout this deferred transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$6,075,984 for only Transmission Service Request 194668. 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 21. The base rate transmission service charges are estimated to be \$1,490,400 and the monthly revenue requirements are listed in Table 20. 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 in the amount of \$4,820,000. The Transmission Customer must also confirm this request, and its deferral with a reservation period from March 1, 2004 to March 1, 2006, on Southwest Power Pool's OASIS pursuant to the results of this Facilities Study.

In the Alternative #3 Deferral Case for 86MW per SPP OATT 15.5 given the results of the Impact Study SPP-2000-044, Network Upgrades that were identified as required to provide the deferred Transmission Service are listed in Tables 23 through 26. Table 23 includes the Network Upgrades and Costs assigned to the CPS to only accommodate Transmission Service Request 194668 from CSWS to Ameren. Table 24 includes previously assigned Network Upgrades requiring only additional capacity to accommodate this request. Table 25 includes previously assigned Network Upgrades requiring only accelerated in-service dates. Table 26 includes previously assigned Network Upgrades requiring both additional capacity and accelerated in-service dates to accommodate this request.

Throughout this deferred transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$3,843,312 for only Transmission Service Request 194668. 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 32. The base rate transmission service charges are estimated to be \$1,424,160 and the monthly revenue requirements are listed in Table 31. 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 in the amount of \$3,020,000. The

Transmission Customer must also confirm this request, and its deferral with a reservation period from March 1, 2004 to March 1, 2006, on Southwest Power Pool's OASIS pursuant to the results of this Facilities Study.

In the Alternative #4 Deferral Case for 86MW and then 150MW per SPP OATT 15.5 given the results of the Impact Study SPP-2000-044, Network Upgrades that were identified as required to provide the deferred Transmission Service are listed in Tables 34 through 37. Table 34 includes the Network Upgrades and Costs assigned to the CPS to accommodate Transmission Service Requests 194668 and 194669 from CSWS to Ameren. Table 35 includes previously assigned Network Upgrades requiring only additional capacity to accommodate this request. Table 36 includes previously assigned Network Upgrades requiring only accelerated in-service dates. Table 37 includes previously assigned Network Upgrades requiring both additional capacity and accelerated in-service dates to accommodate this request.

Throughout this deferred transaction period of the requested Transmission Service, the estimate of the levelized revenue requirements for the required Network Upgrades is \$31,557,984 for Transmission Service Requests 194668 and 194669. 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 43. The base rate transmission service charges are estimated to be \$1,954,080 and the monthly revenue requirements are listed in Table 42. 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 in the amount of \$28,285,000. The Transmission Customer must also confirm this request, and its deferral with a reservation period from October 1, 2004 to October 1, 2005 for 86MW and then October 1, 2005 to

October 1, 2006 for 150MW, 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. This applies to all alternatives specified herein.

**Table 1 – Alternative #1 Deferral Case For 150MW  
Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Facilities Assigned To Only This Request For Transmission Service  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

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)
Broken Bow - Bethel 138KV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR By CSWS.	2,575,000	24	6/1/04	2/1/04	6/1/06
Coffeyville Tap To Dearing 138 kV: Replace wave trap at Dearing By WR.	20,000	12	6/1/03	2/1/03	6/1/06
Sikeston-Minor: Rebuild 10 miles by SPA and upgrade each station.	3,000,000	24	12/1/02	2/1/04	6/1/05
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line By CSWS.	22,600,000	48	6/1/04	2/1/06	6/1/06
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	45,000	8	6/1/04	5/2/02	6/1/06
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	45,000	8	6/1/04	5/2/02	6/1/06
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill By CSWS.	0	18	6/1/04	3/2/03	N/A (3)
<b>SUBTOTAL</b>	<b>\$28,285,000</b>				

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) Only required in Alternative Deferral Case #2 For 90MW.

**Table 2 – Alternative #1 Deferral Case For 150MW**  
**Estimated Network Upgrade Costs, Lead Times & In-Service Dates**  
**For Previously Assigned Facilities Requiring Only Additional Capacity**  
**For Requests 194668 & 194669 From CSWS To Ameren**  
**During The Period From October 1, 2005 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)
Broken Bow - Bethel 138KV: Reset 400/5 CTs at Broken Bow by SPA. (2)	Reset CTs to 800/5	194656, 194657	1,000	1,000 (1)	6	4/1/06	6/1/04
SUBTOTAL			\$1,000	\$1,000			

Note: (1) Given no change in cost, no additional cost assigned to Transmission Customer for this request.  
(2) Previously assigned to SPP-2000-043-2.

**Table 3 – Alternative #1 Deferral Case For 150MW**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

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)
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 4 – Alternative #1 Deferral Case For 150MW**  
**Estimated Network Upgrade Costs, Lead Times & In-Service Dates**  
**For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates**  
**For Requests 194668 & 194669 From CSWS To Ameren**  
**During The Period From October 1, 2005 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)	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 6 – Alternative #1 Deferral Case For 150MW  
 Network Elements Assigned To This Transmission Service Request  
 That Limit The ATC To Less Than That Requested  
 Due To Engineering And Construction Schedules  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 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				

Note: Date In Service is based on items received by September 1, 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

**Table 7 – Alternative #1 Deferral Case For 150MW  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
SPP-2000-003, with a contract date of 1/1/2001.										
Carthage - Reeds CT Ratio Change	SPA	6 (3)	O4WP	6/1/01	1	1/31/01	0	2/1/01	0	6/1/01
Minimum 12/1 – 4/1 2005:		150								
Request 150680, SPP-2000-086, with a contract date of 4/15/2001.										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	94 (3)	O3G	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	94 (3)	O3G	4/1/01	30	10/15/03	30.5	2/1/04	34	2/1/04
Minimum 4/1 – 6/1 2006 & 2007:		150								

- 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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
Request 150680, SPP-2000-086, with a contract date of 4/15/2001 (Continued).										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	0 (3)	O4SP	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	0 (3)	O4SP	6/1/01	30	10/15/03	28.5	2/1/04	32	2/1/04
Cherokee REC - Knox Lee 138kV: Reconductor 3.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Cherokee REC - Tatum 138kV: Recond. 6.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	18	10/14/02	16.5	2/1/03	20	2/1/03
Rock Hill - Tatum 138kV Recond 0.81 mi & wavetrap	CSWS	86 (3)	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Minimum 6/1 – 10/1 2006:		150								

- 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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01.										
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	94 (3)	03G	4/1/03	30	3/2/04	11	3/2/04	11	3/2/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	113 (3)	03G	4/1/03	6	3/2/02		3/2/02		6/1/04
Minimum 4/1 – 6/1 2006 & 2007		150								
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	0 (3)	04SP	6/1/03	30	3/2/04	9	3/2/04	9	3/2/04
Longwood - Noram 138kV: Recond. 4.66 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	15	12/1/02		3/15/03		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.

(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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Fulton - Patmos 115kV: Reconductor 7.1 Miles With 1272 ACSR.	CSWS	0 (3)	04SP	6/1/03	18	3/2/03		3/2/03		2/1/04
Raines - Noram 138kV: Rebuild 5.58 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	138 (3)	04SP	6/1/04	6	3/2/02		3/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering.	SPA	0 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles To 1590.	CSWS	0 (3)	04SP	6/1/04	12	9/1/02		2/1/03		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.
- (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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP & not assigned to CPS.	KACP	0 (3)	04SP	6/1/03	24	9/1/03	3	2/1/04	8	2/1/04
Minimum 6/1 – 10/1 2006 & 2007:		150								

- 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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP no later than 2/1/04.	KACP	0 (3)	04WP	12/1/03	24	9/1/03		2/1/04	2	2/1/04
Fulton - Patmos 115kV: Reconductor 7.1 Miles ACSR With 1272 ACSR.	CSWS	0 (3)	04WP	12/1/03	18	3/2/03		3/2/03		2/1/04
Minimum 12/1/05 – 4/1/06 & 12/1/06 – 4/1/07		150								
This Reservation 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01.										
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	03G	12/1/02	24	9/1/03	9	2/1/04	14	6/1/05
Minimum 4/1 – 6/1 2006 & 2007		150								

- 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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Pecan Creek 345/161KV Transformer: Add 2nd 345/161kV 369MVA transformer.	OKGE	113	04SP	6/1/04	20	5/2/03		5/2/03		(4)
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Coffeyville Tap To Dearing 138 kV: Replace wave trap.	WR	3	04SP	6/1/03	12	9/1/02		2/1/03		6/1/06
Aurora H.T.-Monett 161 KV: Mitigation plan in effect.	EDE	150	04SP							
Pensacola-Gray Tap 69kV: Rebuild 4/0 to 795MCM.	GRDA	122	04SP	6/1/04	18	3/2/03		3/2/03		(5)

- 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) Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW. Therefore, given the level of ATC, not required in all alternatives.
- (5) To be upgraded by GRDA per SPP-2000-003/004 and not assigned to this Transmission Customer.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Rock Hill To Tatum 138KV: Recond. other 5.76 miles with 1272 ACSR. Reset CTs @ Rock Hill.	CSWS	86	04SP	6/1/04	18	3/2/03		3/2/03		(4)
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04SP	12/1/02	24	9/1/03	9	2/1/04	14	6/1/05
New Mountain - Wilkes 345kV: Add Constellation Sw Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line.	CSWS	90 (3)	04SP	6/1/04	48	9/1/05	15	2/1/06	20	6/1/06 (5)
Lone Star South To Wilkes 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		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.
- (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) Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW.
- (5) Limiting facility to start reservation.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Lone Star South To Pittsburg 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06
Broken Bow - Bethel 138kV: Rebuild 9.19 miles with 795 ACSR.	CSWS	138 (3)	04SP	6/1/04	24	9/1/03		2/1/04		6/1/06
Minimum 6/1 - 10/1 2006 & 2007:		150								
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04WP	12/1/02	24	9/1/03	9	2/1/04	14	6/1/05
Minimum 12/1/05 - 4/1/06 & 12/1/06 - 4/1/07:		150								

- 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.

**Table 7 – Alternative #1 Deferral Case For 150MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 To October 1, 2007**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Summary of seasonal ATC with upgrades:										
Minimum 6/1 - 10/1, 2006 & 2007:		150								
Minimum 12/1/05 - 4/1/06:		150								
Minimum 12/1/06 - 4/1/07:		150								
Minimum 4/1 - 6/1 2006 & 2007:		150								
Summary of annual ATC with upgrades:										
10/1/05 - 10/1/06:		150								
10/1/06 - 10/1/07:		150								

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 – Alternative #1 Deferral Case For 150MW  
 Summary Of Available Transfer Capability  
 With All Network Upgrades Assigned To This And Previous Reservations  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 To October 1, 2007**

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2002	12/1 – 12/31	0
2003	1/1 – 12/31	0
2004	1/1 – 12/31	0
2005	1/1 – 10/1	0
2005	10/1 – 12/31	150
2006	1/1 – 12/31	150
2007	1/1 – 10/1	150

Note: Values of ATC are based on items received by September 1, 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 – Alternative #1 Deferral Case For 150MW  
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 Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

OPERATING PERIOD (MONTH)	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	150	103,500	150	103,500
February	N/A	N/A	150	103,500	150	103,500
March	N/A	N/A	150	103,500	150	103,500
April	N/A	N/A	150	103,500	150	103,500
May	N/A	N/A	150	103,500	150	103,500
June	N/A	N/A	150	103,500	150	103,500
July	N/A	N/A	150	103,500	150	103,500
August	N/A	N/A	150	103,500	150	103,500
September	N/A	N/A	150	103,500	150	103,500
October	150	103,500	150	103,500	N/A	N/A
November	150	103,500	150	103,500	N/A	N/A
December	150	103,500	150	103,500	N/A	N/A
<b>SUBTOTAL BY YEAR</b>		<b>\$310,500</b>		<b>\$1,242,000</b>		<b>\$931,500</b>
<b>TOTAL FOR ALL YEARS</b>						<b>\$2,484,000</b>

Note: Values of ATC are based on items received by September 1, 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 – Alternative #1 Deferral Case For 150MW  
Summary Of Available Transfer Capability With All Network Upgrades  
And The Estimate Of Network Upgrade Revenue Requirements Only  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2005 To October 1, 2007**

OPERATING PERIOD (Month)	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	150	1,458,139	150	1,458,139
February	N/A	N/A	150	1,458,139	150	1,458,139
March	N/A	N/A	150	1,458,139	150	1,458,139
April	N/A	N/A	150	1,458,139	150	1,458,139
May	N/A	N/A	150	1,458,139	150	1,458,139
June	N/A	N/A	150	1,458,139	150	1,458,139
July	N/A	N/A	150	1,458,139	150	1,458,139
August	N/A	N/A	150	1,458,139	150	1,458,139
September	N/A	N/A	150	1,458,139	150	1,458,139
October	150	1,458,139	150	1,458,139	N/A	N/A
November	150	1,458,139	150	1,458,139	N/A	N/A
December	150	1,458,139	150	1,458,139	N/A	N/A
SUBTOTAL BY YEAR		\$4,374,417		\$17,497,668		\$13,123,251
TOTAL FOR ALL YEARS	\$34,995,336					

Note: Values of ATC are based on items received by September 1, 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 – Alternative #1 Deferral Case For 150MW  
 Identified Third-Party Network Upgrades & Required In-Service Dates  
 To Accommodate This Request For Transmission Service  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2005 To October 1, 2007**

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
CELE-EES 50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	12/1/05
EES-EES 97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	4/1/06
EES-EES 97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	4/1/06
EES-EES 97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	4/1/06
EES-EES 99146 3STERL 115 to 99232 3CROS-N 115 CKT 1	12/1/05
EES-EES 99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	12/1/05
EES-EES 99168 3SAILES 115 to 99179 3ADA 11 115 CKT 1	12/1/05
EES-EES 99171 3SPRINGH 115 to 99280 3TAYLOR 115 CKT 1	6/1/06
EES-EES 99230 3COUCH 115 to 99310 3MCNEIL 115 CKT 1	12/1/05
EES-EES 99263 3LEWIS # 115 to 99230 3COUCH 115 CKT 1	12/1/05
EES-EES 99303 3PATMOS# 115 to 99263 3LEWIS # 115 CKT 1	12/1/05
EES-EES 99380 3HOPE E# 115 to 99230 3COUCH 115 CKT 1	6/1/06
EES-EES 99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	12/1/05
EES-EES 99782 5TRUMAN 161 to 99750 5HRSEBRG* 161 CKT 1	6/1/06
EES-EES 99782 5TRUMAN 161 to 99781 5TRUM-W# 161 CKT 1	6/1/06

**Table 12 – Alternative #2 Deferral Case For 90MW  
Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Facilities Assigned To Only This Request For Transmission Service  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

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)
Broken Bow - Bethel 138KV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR By CSWS.	0	24	6/1/04	2/1/04	(3)
Coffeyville Tap To Dearing 138 kV: Replace wave trap at Dearing By WR.	20,000	12	6/1/03	2/1/03	6/1/04
Sikeston-Minor: Rebuild 10 miles by SPA and upgrade each station.	3,000,000	24	12/1/02	2/1/04	3/1/04
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line By CSWS.	0	48	6/1/04	2/1/06	(3)
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	0	8	6/1/04	5/2/02	(3)
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	0	8	6/1/04	5/2/02	(3)
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill By CSWS.	1,800,000	18	6/1/04	3/2/03	6/1/04
<b>SUBTOTAL</b>	<b>\$4,820,000</b>				

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) Only required in Alternative Deferral Cases #1 & #4 to accommodate 150MW.

**Table 13 – Alternative #2 Deferral Case For 90MW  
 Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
 For Previously Assigned Facilities Requiring Only Additional Capacity  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

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)
Broken Bow - Bethel 138KV: Reset 400/5 CTs at Broken Bow by SPA. (3)	Reset CTs to 800/5	194656, 194657	1,000	1,000 (2)	6	(1)	6/1/04
SUBTOTAL			\$1,000	\$1,000			

Note: (1) Only required in Alternative Deferral Cases #1 & #4 to accommodate 150MW.  
 (3) Given no change in cost, no additional cost assigned to Transmission Customer for this request.  
 (4) Previously assigned to SPP-2000-043-2.

**Table 14 – Alternative #2 Deferral Case For 90MW**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

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)
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 15 – Alternative #2 Deferral Case For 90MW**  
**Estimated Network Upgrade Costs, Lead Times & In-Service Dates**  
**For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates**  
**For Request 194668 From CSWS To Ameren**  
**During The Period From March 1, 2004 To March 1, 2006**

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 16 – Alternative #2 Deferral Case For 90MW  
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 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

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)
IPC Jefferson - Lieberman 138kV Recond 26.35 miles	150680	2/1/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
IPC Jefferson - Lieberman 138kV: Reconductor 0.65Mi Only & Replace Lieberman Switches.	194656, 194657	3/2/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow By SWPA.	“	6/1/04	113	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	138	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Longwood - Noram 138kV: Reconductor 4.66 Miles Of Bundled 266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Fulton - Patmos 115kV: Reconductor 7.1 Miles Of 666 ACSR With 1272 ACSR By CSWS.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	2/1/04	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Raines - Noram 138kV: Rebuild 5.58 Miles Of 2-266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering By SWPA.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles, 795 To 1590MCM, By CSWS.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Stilwell - Lacygne 345kV: Upgrade by KACP.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>

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

**Table 17 – Alternative #2 Deferral Case For 90MW  
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 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

NETWORK UPGRADE	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
Sikeston-Minor: Rebuild 10 miles and stations by SPA.	3/1/04	0	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Coffeyville Tap To Dearing 138 kV: Replace wave trap to increase rating to conductor by WR.	6/1/04	3	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill by CSWS.	6/1/04	86	04SP	<u>6/1 – 10/1</u> <u>2003</u>
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Broken Bow - Bethel 138kV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR by CSWS.	N/A	138	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>

Note: Date In Service is based on items received by September 1, 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

**Table 18 – Alternative #2 Deferral Case For 90MW  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
SPP-2000-003, with a contract date of 1/1/2001.										
Carthage - Reeds CT Ratio Change	SPA	6 (3)	O4WP	6/1/01	1	1/31/01	0	2/1/01	0	6/1/01
Minimum 12/1 – 4/1 2005:		150								
Request 150680, SPP-2000-086, with a contract date of 4/15/2001.										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	94 (3)	O3G	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	94 (3)	O3G	4/1/01	30	10/15/03	30.5	2/1/04	34	2/1/04
Minimum 4/1 – 6/1 2006 & 2007:		150								

- 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.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Request 150680, SPP-2000-086, with a contract date of 4/15/2001 (Continued).										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	0 (3)	O4SP	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	0 (3)	O4SP	6/1/01	30	10/15/03	28.5	2/1/04	32	2/1/04
Cherokee REC - Knox Lee 138kV: Reconductor 3.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Cherokee REC - Tatum 138kV: Recond. 6.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	18	10/14/02	16.5	2/1/03	20	2/1/03
Rock Hill - Tatum 138kV Recond 0.81 mi & wavetrap	CSWS	86 (3)	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Minimum 6/1 – 10/1 2006:		150								

- 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.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01.										
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	94 (3)	03G	4/1/03	30	3/2/04	11	3/2/04	11	3/2/04 (4)
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	113 (3)	03G	4/1/03	6	3/2/02		3/2/02		6/1/04
Minimum 4/1 – 6/1 2006 & 2007		150								
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	0 (3)	04SP	6/1/03	30	3/2/04	9	3/2/04	9	3/2/04 (4)
Longwood - Noram 138kV: Recond. 4.66 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	15	12/1/02		3/15/03		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.
- (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) Limiting facility to start reservation.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Fulton - Patmos 115kV: Reconductor 7.1 Miles With 1272 ACSR.	CSWS	0 (3)	04SP	6/1/03	18	3/2/03		3/2/03		2/1/04
Raines - Noram 138kV: Rebuild 5.58 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	138 (3)	04SP	6/1/04	6	3/2/02		3/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering.	SPA	0 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles To 1590.	CSWS	0 (3)	04SP	6/1/04	12	9/1/02		2/1/03		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.
- (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.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP & not assigned to CPS.	KACP	0 (3)	04SP	6/1/03	24	9/1/03	3	2/1/04	8	2/1/04
Minimum 6/1 – 10/1 2006 & 2007:		150								

- 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.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP no later than 2/1/04.	KACP	0 (3)	04WP	12/1/03	24	9/1/03		2/1/04	2	2/1/04 (4)
Fulton - Patmos 115kV: Reconductor 7.1 Miles ACSR With 1272 ACSR.	CSWS	0 (3)	04WP	12/1/03	18	3/2/03		3/2/03		2/1/04
Minimum 12/1/05 – 4/1/06 & 12/1/06 – 4/1/07		150								
This Reservation 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01.										
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	03G	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (4)
Minimum 4/1 – 6/1 2004 & 2005		90								

- 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) Limiting facility to start reservation.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Pecan Creek 345/161KV Transformer: Add 2nd 345/161kV 369MVA transformer.	OKGE	113	04SP	6/1/04	20	5/2/03		5/2/03		(4)
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Coffeyville Tap To Dearing 138 kV: Replace wave trap.	WR	3 (3)	04SP	6/1/03	12	9/1/02		2/1/03		6/1/04
Aurora H.T.-Monett 161 KV: Mitigation plan in effect.	EDE	150	04SP							
Pensacola-Gray Tap 69kV: Rebuild 4/0 to 795MCM.	GRDA	122	04SP	6/1/04	18	3/2/03		3/2/03		(5)

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) Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW. Therefore, given the level of ATC, not required in all alternatives.

(5) To be upgraded by GRDA per SPP-2000-003/004 and not assigned to this Transmission Customer.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Rock Hill To Tatum 138KV: Recond. other 5.76 miles with 1272 ACSR. Reset CTs @ Rock Hill.	CSWS	86	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04 (4)
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04SP	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (5)
New Mountain - Wilkes 345kV: Add Constellation Sw Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line.	CSWS	90 (3)	04SP	6/1/04	48	9/1/05	15	2/1/06	20	6/1/06 (6)
Lone Star South To Wilkes 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06 (6)

- 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) Applicable to this alternative. Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW.
- (5) Limiting facility to start reservation.
- (6) Not required in this alternative.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Lone Star South To Pittsburg 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06 (4)
Broken Bow - Bethel 138kV: Rebuild 9.19 miles with 795 ACSR.	CSWS	138 (3)	04SP	6/1/04	24	9/1/03		2/1/04		6/1/06 (4)
Minimum 6/1 - 10/1 2004 & 2005:		90								
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04WP	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (5)
Minimum 3/1/04 – 4/1/04 12/1/04 - 4/1/05 & 12/1/05 - 4/1/06:		90								

- 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) Not required in this alternative.
- (5) Limiting facility to start reservation.

**Table 18 – Alternative #2 Deferral Case For 90MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Summary of seasonal ATC with upgrades:										
Minimum 6/1 - 10/1, 2004 & 2005:		90								
Minimum 3/1/04 – 4/1/04 12/1/04 - 4/1/05:		90								
Minimum 12/1/05 - 4/1/06:		90								
Minimum 4/1 - 6/1 2004 & 2005:		90								
Summary of annual ATC with upgrades:										
3/1/04 - 3/1/05:		90								
3/1/05 - 3/1/06:		90								

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 service above the ATC within the reservation upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time period due to reduced loading of the facility below its emergency rating.

**Table 19 – Alternative #2 Deferral Case For 90MW  
 Summary Of Available Transfer Capability  
 With All Network Upgrades Assigned To This And Previous Reservations  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2002	12/1 – 12/31	0
2003	1/1 – 12/31	0
2004	1/1 – 3/1	0
2004	3/1 – 12/31	90
2005	1/1 – 12/31	90
2006	1/1 – 3/1	90

Note: Values of ATC are based on items received by September 1, 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 20 – Alternative #2 Deferral Case For 90MW  
 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 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (MONTH)	2004 ATC (MW)	2004 BASE RATE REVENUES (\$)	2005 ATC (MW)	2005 BASE RATE REVENUES (\$)	2006 ATC (MW)	2006 BASE RATE REVENUES (\$)
January	N/A	N/A	90	62,100	90	62,100
February	N/A	N/A	90	62,100	90	62,100
March	90	62,100	90	62,100	N/A	N/A
April	90	62,100	90	62,100	N/A	N/A
May	90	62,100	90	62,100	N/A	N/A
June	90	62,100	90	62,100	N/A	N/A
July	90	62,100	90	62,100	N/A	N/A
August	90	62,100	90	62,100	N/A	N/A
September	90	62,100	90	62,100	N/A	N/A
October	90	62,100	90	62,100	N/A	N/A
November	90	62,100	90	62,100	N/A	N/A
December	90	62,100	90	62,100	N/A	N/A
<b>SUBTOTAL BY YEAR</b>		<b>\$621,000</b>		<b>\$745,200</b>		<b>\$124,200</b>
<b>TOTAL FOR ALL YEARS</b>						<b>\$1,490,400</b>

Note: Values of ATC are based on items received by September 1, 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 21 – Alternative #2 Deferral Case For 90MW  
Summary Of Available Transfer Capability With All Network Upgrades  
And The Estimate Of Network Upgrade Revenue Requirements Only  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (Month)	2004 ATC (MW)	2004 NETWORK UPGRADE REVENUES (\$)	2005 ATC (MW)	2005 NETWORK UPGRADE REVENUES (\$)	2006 ATC (MW)	2006 NETWORK UPGRADE REVENUES (\$)
January	N/A	N/A	90	253,166	90	253,166
February	N/A	N/A	90	253,166	90	253,166
March	90	253,166	90	253,166	N/A	N/A
April	90	253,166	90	253,166	N/A	N/A
May	90	253,166	90	253,166	N/A	N/A
June	90	253,166	90	253,166	N/A	N/A
July	90	253,166	90	253,166	N/A	N/A
August	90	253,166	90	253,166	N/A	N/A
September	90	253,166	90	253,166	N/A	N/A
October	90	253,166	90	253,166	N/A	N/A
November	90	253,166	90	253,166	N/A	N/A
December	90	253,166	90	253,166	N/A	N/A
SUBTOTAL BY YEAR		\$2,531,660		\$3,037,992		\$506,332
TOTAL FOR ALL YEARS						\$6,075,984

Note: Values of ATC are based on items received by September 1, 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 22 – Alternative #2 Deferral Case For 90MW  
 Identified Third-Party Network Upgrades & Required In-Service Dates  
 To Accommodate This Request For Transmission Service  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
CELE-EES 50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	3/1/04
EES-EES 97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	4/1/04
EES-EES 97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	4/1/04
EES-EES 99146 3STERL 115 to 99232 3CROS-N 115 CKT 1	3/1/04
EES-EES 99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	3/1/04
EES-EES 99168 3SAILES 115 to 99179 3ADA 11 115 CKT 1	3/1/04
EES-EES 99171 3SPRINGH 115 to 99280 3TAYLOR 115 CKT 1	6/1/04
EES-EES 99230 3COUCH 115 to 99310 3MCNEIL 115 CKT 1	3/1/04
EES-EES 99263 3LEWIS # 115 to 99230 3COUCH 115 CKT 1	3/1/04
EES-EES 99303 3PATMOS# 115 to 99263 3LEWIS # 115 CKT 1	3/1/04
EES-EES 99380 3HOPE E# 115 to 99230 3COUCH 115 CKT 1	6/1/04
EES-EES 99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	3/1/04
EES-EES 99782 5TRUMAN 161 to 99750 5HRSBRG* 161 CKT 1	6/1/04

**Table 23 – Alternative #3 Deferral Case For 86MW  
 Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
 For Facilities Assigned To Only This Request For Transmission Service  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

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)
Broken Bow - Bethel 138KV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR By CSWS.	0	24	6/1/04	2/1/04	(3)
Coffeyville Tap To Dearing 138 kV: Replace wave trap at Dearing By WR.	20,000	12	6/1/03	2/1/03	6/1/04
Sikeston-Minor: Rebuild 10 miles by SPA and upgrade each station.	3,000,000	24	12/1/02	2/1/04	3/1/04
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line By CSWS.	0	48	6/1/04	2/1/06	(3)
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	0	8	6/1/04	5/2/02	(3)
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	0	8	6/1/04	5/2/02	(3)
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill By CSWS.	0	18	6/1/04	3/2/03	6/1/04 (4)
<b>SUBTOTAL</b>	<b>\$3,020,000</b>				

- 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) Only required in Alternative Deferral Cases #1 & #4 to accommodate 150MW.
- (4) Only required for Alternative Deferral Cases #2 to accommodate 90MW

**Table 24 – Alternative #3 Deferral Case For 86MW**  
**Estimated Network Upgrade Costs, Lead Times & In-Service Dates**  
**For Previously Assigned Facilities Requiring Only Additional Capacity**  
**For Request 194668 From CSWS To Ameren**  
**During The Period From March 1, 2004 To March 1, 2006**

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)
Broken Bow - Bethel 138KV: Reset 400/5 CTs at Broken Bow by SPA. (3)	Reset CTs to 800/5	194656, 194657	1,000	1,000 (2)	6	(1)	6/1/04
SUBTOTAL			\$1,000	\$1,000			

Note: (1) Only required in Alternative Deferral Cases #1 & #4 to accommodate 150MW.  
(2) Given no change in cost, no additional cost assigned to Transmission Customer for this request.  
(3) Previously assigned to SPP-2000-043-2.

**Table 25 – Alternative #3 Deferral Case For 86MW**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

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)
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 26 – Alternative #3 Deferral Case For 86MW**  
**Estimated Network Upgrade Costs, Lead Times & In-Service Dates**  
**For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates**  
**For Request 194668 From CSWS To Ameren**  
**During The Period From March 1, 2004 To March 1, 2006**

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 27 – Alternative #3 Deferral Case For 86MW  
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 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

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)
IPC Jefferson - Lieberman 138kV Recond 26.35 miles	150680	2/1/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
IPC Jefferson - Lieberman 138kV: Reconductor 0.65Mi Only & Replace Lieberman Switches.	194656, 194657	3/2/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow By SWPA.	“	6/1/04	113	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	138	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Longwood - Noram 138kV: Reconductor 4.66 Miles Of Bundled 266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Fulton - Patmos 115kV: Reconductor 7.1 Miles Of 666 ACSR With 1272 ACSR By CSWS.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	2/1/04	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Raines - Noram 138kV: Rebuild 5.58 Miles Of 2-266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering By SWPA.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles, 795 To 1590MCM, By CSWS.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Stilwell - Lacygne 345kV: Upgrade by KACP.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>

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

**Table 28 – Alternative #3 Deferral Case For 86MW  
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 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

NETWORK UPGRADE	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
Sikeston-Minor: Rebuild 10 miles and stations by SPA.	3/1/04	0	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Coffeyville Tap To Dearing 138 kV: Replace wave trap to increase rating to conductor by WR.	6/1/04	3	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill by CSWS.	N/A	86	04SP	<u>6/1 – 10/1</u> <u>2003</u>
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	N/A	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Broken Bow - Bethel 138kV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR by CSWS.	N/A	138	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>

Note: Date In Service is based on items received by September 1, 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

**Table 29 – Alternative #3 Deferral Case For 86MW  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
SPP-2000-003, with a contract date of 1/1/2001.										
Carthage - Reeds CT Ratio Change	SPA	6 (3)	O4WP	6/1/01	1	1/31/01	0	2/1/01	0	6/1/01
Minimum 12/1 – 4/1 2005:		150								
Request 150680, SPP-2000-086, with a contract date of 4/15/2001.										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	94 (3)	O3G	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	94 (3)	O3G	4/1/01	30	10/15/03	30.5	2/1/04	34	2/1/04
Minimum 4/1 – 6/1 2006 & 2007:		150								

- 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.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Request 150680, SPP-2000-086, with a contract date of 4/15/2001 (Continued).										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	0 (3)	O4SP	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	0 (3)	O4SP	6/1/01	30	10/15/03	28.5	2/1/04	32	2/1/04
Cherokee REC - Knox Lee 138kV: Reconductor 3.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Cherokee REC - Tatum 138kV: Recond. 6.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	18	10/14/02	16.5	2/1/03	20	2/1/03
Rock Hill - Tatum 138kV Recond 0.81 mi & wavetrap	CSWS	86 (3)	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Minimum 6/1 – 10/1 2006:		150								

- 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.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01.										
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	94 (3)	03G	4/1/03	30	3/2/04	11	3/2/04	11	3/2/04 (4)
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	113 (3)	03G	4/1/03	6	3/2/02		3/2/02		6/1/04
Minimum 4/1 – 6/1 2006 & 2007		150								
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	0 (3)	04SP	6/1/03	30	3/2/04	9	3/2/04	9	3/2/04 (4)
Longwood - Noram 138kV: Recond. 4.66 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	15	12/1/02		3/15/03		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.
- (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) Limiting facility to start reservation.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Fulton - Patmos 115kV: Reconductor 7.1 Miles With 1272 ACSR.	CSWS	0 (3)	04SP	6/1/03	18	3/2/03		3/2/03		2/1/04
Raines - Noram 138kV: Rebuild 5.58 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	138 (3)	04SP	6/1/04	6	3/2/02		3/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering.	SPA	0 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles To 1590.	CSWS	0 (3)	04SP	6/1/04	12	9/1/02		2/1/03		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.
- (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.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)**  
**Transfer Limits Given Engineering And Construction Lead Times**  
**Of Previously Assigned Facilities And Facilities Assigned To This Request**  
**For Request 194668 From CSWS To Ameren**  
**During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP & not assigned to CPS.	KACP	0 (3)	04SP	6/1/03	24	9/1/03	3	2/1/04	8	2/1/04
Minimum 6/1 – 10/1 2006 & 2007:		150								

- 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.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP no later than 2/1/04.	KACP	0 (3)	04WP	12/1/03	24	9/1/03		2/1/04	2	2/1/04 (4)
Fulton - Patmos 115kV: Reconductor 7.1 Miles ACSR With 1272 ACSR.	CSWS	0 (3)	04WP	12/1/03	18	3/2/03		3/2/03		2/1/04
Minimum 12/1/05 – 4/1/06 & 12/1/06 – 4/1/07		150								
This Reservation 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01.										
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	03G	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (4)
Minimum 4/1 – 6/1 2004 & 2005		86								

- 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) Limiting facility to start reservation.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Pecan Creek 345/161KV Transformer: Add 2nd 345/161kV 369MVA transformer.	OKGE	113	04SP	6/1/04	20	5/2/03		5/2/03		(4)
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Coffeyville Tap To Dearing 138 kV: Replace wave trap.	WR	3 (3)	04SP	6/1/03	12	9/1/02		2/1/03		6/1/04
Aurora H.T.-Monett 161 KV: Mitigation plan in effect.	EDE	150	04SP							
Pensacola-Gray Tap 69kV: Rebuild 4/0 to 795MCM.	GRDA	122	04SP	6/1/04	18	3/2/03		3/2/03		(5)

- 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) Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW. Therefore, given the level of ATC, not required in all alternatives.
- (5) To be upgraded by GRDA per SPP-2000-003/004 and not assigned to this Transmission Customer.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Request 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Rock Hill To Tatum 138KV: Recond. other 5.76 miles with 1272 ACSR. Reset CTs @ Rock Hill.	CSWS	86	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04 (4)
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04SP	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (5)
New Mountain - Wilkes 345kV: Add Constellation Sw Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line.	CSWS	90 (3)	04SP	6/1/04	48	9/1/05	15	2/1/06	20	6/1/06 (6)
Lone Star South To Wilkes 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06 (6)

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) Applicable to only Alternative Deferral Case #2 for 90MW. Not required with 345kV facilities in service in Case #1 and #4 to accommodate 150MW.

Alternative Deferral

(5) Limiting facility to start reservation.

(6) Not required in this alternative.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Lone Star South To Pittsburg 138KV: Change CTs.	CSWS	90 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06 (4)
Broken Bow - Bethel 138kV: Rebuild 9.19 miles with 795 ACSR.	CSWS	138 (3)	04SP	6/1/04	24	9/1/03		2/1/04		6/1/06 (4)
Minimum 6/1 - 10/1 2004 & 2005:		86								
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04WP	12/1/02	24	9/1/03	9	2/1/04	14	3/1/04 (5)
Minimum 3/1/04 – 4/1/04 12/1/04 - 4/1/05 & 12/1/05 - 4/1/06:		86								

- 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) Not required in this alternative.
- (5) Limiting facility to start reservation.

**Table 29 – Alternative #3 Deferral Case For 86MW (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Summary of seasonal ATC with upgrades:										
Minimum 6/1 - 10/1, 2004 & 2005:		86								
Minimum 3/1/04 – 4/1/04 12/1/04 - 4/1/05:		86								
Minimum 12/1/05 - 4/1/06:		86								
Minimum 4/1 - 6/1 2004 & 2005:		86								
Summary of annual ATC with upgrades:										
3/1/04 - 3/1/05:		86								
3/1/05 - 3/1/06:		86								

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. upgrade/addition is not required, due to its lead time for engineering and construction, as 1) continuous annual limit may be provided only after the requested reservation period, or 2) the facility is not required at a later time period due to reduced loading of the facility below its emergency rating.

If N/A, then the facility service above the ATC within the reservation

**Table 30 – Alternative #3 Deferral Case For 86MW  
 Summary Of Available Transfer Capability  
 With All Network Upgrades Assigned To This And Previous Reservations  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2002	12/1 – 12/31	0
2003	1/1 – 12/31	0
2004	1/1 – 3/1	0
2004	3/1 – 12/31	86
2005	1/1 – 12/31	86
2006	1/1 – 3/1	86

Note: Values of ATC are based on items received by September 1, 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 31 – Alternative #3 Deferral Case For 86MW  
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 194668 From CSWS To Ameren  
During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (MONTH)	2004 ATC (MW)	2004 BASE RATE REVENUES (\$)	2005 ATC (MW)	2005 BASE RATE REVENUES (\$)	2006 ATC (MW)	2006 BASE RATE REVENUES (\$)
January	N/A	N/A	86	59,340	86	59,340
February	N/A	N/A	86	59,340	86	59,340
March	86	59,340	86	59,340	N/A	N/A
April	86	59,340	86	59,340	N/A	N/A
May	86	59,340	86	59,340	N/A	N/A
June	86	59,340	86	59,340	N/A	N/A
July	86	59,340	86	59,340	N/A	N/A
August	86	59,340	86	59,340	N/A	N/A
September	86	59,340	86	59,340	N/A	N/A
October	86	59,340	86	59,340	N/A	N/A
November	86	59,340	86	59,340	N/A	N/A
December	86	59,340	86	59,340	N/A	N/A
<b>SUBTOTAL BY YEAR</b>		<b>\$593,400</b>		<b>\$712,080</b>		<b>\$118,680</b>
<b>TOTAL FOR ALL YEARS</b>						<b>\$1,424,160</b>

Note: Values of ATC are based on items received by September 1, 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 32 – Alternative #3 Deferral Case For 86MW  
 Summary Of Available Transfer Capability With All Network Upgrades  
 And The Estimate Of Network Upgrade Revenue Requirements Only  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

OPERATING PERIOD (Month)	2004 ATC (MW)	2004 NETWORK UPGRADE REVENUES (\$)	2005 ATC (MW)	2005 NETWORK UPGRADE REVENUES (\$)	2006 ATC (MW)	2006 NETWORK UPGRADE REVENUES (\$)
January	N/A	N/A	86	160,138	86	160,138
February	N/A	N/A	86	160,138	86	160,138
March	86	160,138	86	160,138	N/A	N/A
April	86	160,138	86	160,138	N/A	N/A
May	86	160,138	86	160,138	N/A	N/A
June	86	160,138	86	160,138	N/A	N/A
July	86	160,138	86	160,138	N/A	N/A
August	86	160,138	86	160,138	N/A	N/A
September	86	160,138	86	160,138	N/A	N/A
October	86	160,138	86	160,138	N/A	N/A
November	86	160,138	86	160,138	N/A	N/A
December	86	160,138	86	160,138	N/A	N/A
SUBTOTAL BY YEAR		\$1,601,380		\$1,921,656		\$320,276
TOTAL FOR ALL YEARS						\$3,843,312

Note: Values of ATC are based on items received by September 1, 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 33 – Alternative #3 Deferral Case For 86MW  
 Identified Third-Party Network Upgrades & Required In-Service Dates  
 To Accommodate This Request For Transmission Service  
 For Request 194668 From CSWS To Ameren  
 During The Period From March 1, 2004 To March 1, 2006**

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
CELE-EES 50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	3/1/04
EES-EES 97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	4/1/04
EES-EES 97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	4/1/04
EES-EES 99146 3STERL 115 to 99232 3CROS-N 115 CKT 1	3/1/04
EES-EES 99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	3/1/04
EES-EES 99168 3SAILES 115 to 99179 3ADA 11 115 CKT 1	3/1/04
EES-EES 99171 3SPRINGH 115 to 99280 3TAYLOR 115 CKT 1	6/1/04
EES-EES 99230 3COUCH 115 to 99310 3MCNEIL 115 CKT 1	3/1/04
EES-EES 99263 3LEWIS # 115 to 99230 3COUCH 115 CKT 1	3/1/04
EES-EES 99303 3PATMOS# 115 to 99263 3LEWIS # 115 CKT 1	3/1/04
EES-EES 99380 3HOPE E# 115 to 99230 3COUCH 115 CKT 1	6/1/04
EES-EES 99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	3/1/04
EES-EES 99782 5TRUMAN 161 to 99750 5HRSBRG* 161 CKT 1	6/1/04

**Table 34 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2  
Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Facilities Assigned To Only This Request For Transmission Service  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

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)
Broken Bow - Bethel 138KV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR By CSWS.	2,575,000	24	6/1/04	2/1/04	6/1/06
Coffeyville Tap To Dearing 138 kV: Replace wave trap at Dearing By WR.	20,000	12	6/1/03	2/1/03	6/1/05
Sikeston-Minor: Rebuild 10 miles by SPA and upgrade each station.	3,000,000	24	12/1/02	2/1/04	6/1/04
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line By CSWS.	22,600,000	48	6/1/04	2/1/06	6/1/06
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	45,000	8	6/1/04	5/2/02	6/1/06
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	45,000	8	6/1/04	5/2/02	6/1/06
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill By CSWS.	0	18	6/1/04	3/2/03	N/A (3)
<b>SUBTOTAL</b>	<b>\$28,285,000</b>				

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) Only required in Alternative Deferral Case #2 For 90MW.

**Table 35 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Only Additional Capacity  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

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)
Broken Bow - Bethel 138KV: Reset 400/5 CTs at Broken Bow by SPA. (2)	Reset CTs to 800/5	194656, 194657	1,000	1,000 (1)	6	4/1/05	6/1/04
SUBTOTAL			\$1,000	\$1,000			

Note: (1) Given no change in cost, no additional cost assigned to Transmission Customer for this request.  
(2) Previously assigned to SPP-2000-043-2.

**Table 36 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Only Accelerated In-Service Dates  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

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)
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 37 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**

**Estimated Network Upgrade Costs, Lead Times & In-Service Dates  
For Previously Assigned Facilities Requiring Both Additional Capacity And Accelerated In-Service Dates  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

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 38 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2  
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 Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

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)
IPC Jefferson - Lieberman 138kV Recond 26.35 miles	150680	2/1/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
IPC Jefferson - Lieberman 138kV: Reconductor 0.65Mi Only & Replace Lieberman Switches.	194656, 194657	3/2/04	94	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow By SWPA.	“	6/1/04	113	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	“	138	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Longwood - Noram 138kV: Reconductor 4.66 Miles Of Bundled 266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Fulton - Patmos 115kV: Reconductor 7.1 Miles Of 666 ACSR With 1272 ACSR By CSWS.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	2/1/04	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Raines - Noram 138kV: Rebuild 5.58 Miles Of 2-266 ACSR With 1590 ACSR.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering By SWPA.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles, 795 To 1590MCM, By CSWS.	“	6/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Stilwell - Lacygne 345kV: Upgrade by KACP.	“	2/1/04	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>

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

**Table 39 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2  
Network Elements Assigned To This Transmission Service Request  
That Limit The ATC To Less Than That Requested  
Due To Engineering And Construction Schedules  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

NETWORK UPGRADE	DATE IN SERVICE (M/D/Y)	ATC (MW)	ATC MODEL	RESTRICTED OPERATING PERIOD (M/D - M/D) (YEAR)
Sikeston-Minor: Rebuild 10 miles and stations by SPA.	6/1/04	0	03G	<u>4/1 – 6/1</u> <u>2003</u>
“	“	0	04SP	<u>6/1 – 10/1</u> <u>2003</u>
“	“	0	04WP	<u>12/1 – 4/1</u> <u>2003</u>
Coffeyville Tap To Dearing 138 kV: Replace wave trap to increase rating to conductor by WR.	6/1/05	3	04SP	<u>6/1 – 10/1</u> <u>2003</u>
Rock Hill To Tatum 138KV: Reconductor other 5.76 miles of 795 ACSR with 1272 ACSR. Reset CTs @ Rock Hill by CSWS.	N/A	86	04SP	<u>6/1 – 10/1</u> <u>2003</u>
New Mountain - Wilkes 345kV: Add Constellation Switching Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line by CSWS.	6/1/06	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Wilkes 138KV: Change CTs by CSWS.	6/1/06	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Lone Star South To Pittsburg 138KV: Change CTs by CSWS.	6/1/06	90	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>
Broken Bow - Bethel 138kV: Rebuild 9.19 miles of 3/0 S CWC with 795 ACSR by CSWS.	6/1/06	138	04SP	<u>6/1 – 10/1</u> <u>2003, 2004, 2005</u>

Note: Date In Service is based on items received by September 1, 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

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
SPP-2000-003, with a contract date of 1/1/2001.										
Carthage - Reeds CT Ratio Change	SPA	6 (3)	O4WP	6/1/01	1	1/31/01	0	2/1/01	0	6/1/01
Minimum 12/1 – 4/1 2004:		150								
Request 150680, SPP-2000-086, with a contract date of 4/15/2001.										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	94 (3)	O3G	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	94 (3)	O3G	4/1/01	30	10/15/03	30.5	2/1/04	34	2/1/04
Minimum 4/1 – 6/1 2005 & 2006:		150								

- 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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
Request 150680, SPP-2000-086, with a contract date of 4/15/2001 (Continued).										
IPC Jefferson - Lieberman 138kV: Lieberman Jumpers	CSWS	0 (3)	O4SP	4/1/01	6	10/14/01	6.5	2/1/02	10.1	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles.	CSWS	0 (3)	O4SP	6/1/01	30	10/15/03	28.5	2/1/04	32	2/1/04
Cherokee REC - Knox Lee 138kV: Reconductor 3.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Cherokee REC - Tatum 138kV: Recond. 6.25 miles with 1272 ACSR.	CSWS	150	O4SP	6/1/01	18	10/14/02	16.5	2/1/03	20	2/1/03
Rock Hill - Tatum 138kV Recond 0.81 mi & wavetrap	CSWS	86 (3)	O4SP	6/1/01	12	4/15/02	10.5	4/15/02	10.5	4/15/02
Minimum 6/1 – 10/1 2005:		150								

- 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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01.										
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	94 (3)	03G	4/1/03	30	3/2/04	11	3/2/04	11	3/2/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	113 (3)	03G	4/1/03	6	3/2/02		3/2/02		6/1/04
Minimum 4/1 – 6/1 2005 & 2006		150								
IPC Jefferson - Lieberman 138kV: Recond. 0.65Mi with 795 ACSR & Replace Lieberman Switches.	CSWS	0 (3)	04SP	6/1/03	30	3/2/04	9	3/2/04	9	3/2/04
Longwood - Noram 138kV: Recond. 4.66 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	15	12/1/02		3/15/03		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.

(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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Fulton - Patmos 115kV: Reconductor 7.1 Miles With 1272 ACSR.	CSWS	0 (3)	04SP	6/1/03	18	3/2/03		3/2/03		2/1/04
Raines - Noram 138kV: Rebuild 5.58 Miles With 1590 ACSR.	CSWS	0 (3)	04SP	6/1/04	18	3/2/03		3/2/03		6/1/04
Broken Bow - Bethel 138kV: Reset 400/5 CTs @ Broken Bow.	SPA	138 (3)	04SP	6/1/04	6	3/2/02		3/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reset Relays & CTs, Replace Metering.	SPA	0 (3)	04SP	6/1/04	8	5/2/02		5/2/02		6/1/04
Eureka Springs - Beaver 161kV: Reconductor 1.25 Of 7.22 Miles To 1590.	CSWS	0 (3)	04SP	6/1/04	12	9/1/02		2/1/03		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.
- (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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP & not assigned to CPS.	KACP	0 (3)	04SP	6/1/03	24	9/1/03	3	2/1/04	8	2/1/04
Minimum 6/1 – 10/1 2005 & 2006:		150								

- 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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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)
Reservation 194656 + 194657, For 250MW Transfer, SPP-2000-043-2, With A Contract Date Of 9/1/01 (Continued).										
Stilwell - Lacygne 345kV: Upgrade to be completed by KACP no later than 2/1/04.	KACP	0 (3)	04WP	12/1/03	24	9/1/03		2/1/04	2	2/1/04
Fulton - Patmos 115kV: Reconductor 7.1 Miles ACSR With 1272 ACSR.	CSWS	0 (3)	04WP	12/1/03	18	3/2/03		3/2/03		2/1/04
Minimum 12/1/04 – 4/1/05 & 12/1/05 – 4/1/06		150								
This Reservation 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01.										
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	03G	12/1/02	24	9/1/03	9	2/1/04	14	6/1/04
Minimum 4/1 – 6/1 2005 & 2006		150								

- 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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Pecan Creek 345/161KV Transformer: Add 2nd 345/161kV 369MVA transformer.	OKGE	113	04SP	6/1/04	20	5/2/03		5/2/03		(4)
S. Shreveport - Wallace Lake 138kV: Upgrade not required as Dolet Hills operating guide eliminates constraint.	CSWS	150	04SP							
Coffeyville Tap To Dearing 138 kV: Replace wave trap.	WR	3	04SP	6/1/03	12	9/1/02		2/1/03		6/1/05
Aurora H.T.-Monett 161 KV: Mitigation plan in effect.	EDE	150	04SP							
Pensacola-Gray Tap 69kV: Rebuild 4/0 to 795MCM.	GRDA	122	04SP	6/1/04	18	3/2/03		3/2/03		(5)

- 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) Not required with 345kV facilities in service in Alternative Deferral Case #1 for 150MW. Therefore, given the level of ATC, not required in all alternatives.
- (5) To be upgraded by GRDA per SPP-2000-003/004 and not assigned to this Transmission Customer.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Rock Hill To Tatum 138KV: Recond. other 5.76 miles with 1272 ACSR. Reset CTs @ Rock Hill.	CSWS	86	04SP	6/1/04	18	3/2/03		3/2/03		(4)
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04SP	12/1/02	24	9/1/03	9	2/1/04	14	6/1/04
New Mountain - Wilkes 345kV: Add Constellation Sw Station, Wilkes Station, and 19 miles 2-795 ACSR 345kV line.	CSWS	90	04SP	6/1/04	48	9/1/05	15	2/1/06	20	6/1/06 (5)
Lone Star South To Wilkes 138KV: Change CTs.	CSWS	90	04SP	6/1/04	8	5/2/02		5/2/02		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.
- (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) Not required with 345kV facilities in service in Alternative Deferral Cases #1 & #4 for 150MW.
- (5) Limiting facility to start reservation.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
Transfer Limits Given Engineering And Construction Lead Times  
Of Previously Assigned Facilities And Facilities Assigned To This Request  
For Requests 194668 & 194669 From CSWS To Ameren  
During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Lone Star South To Pittsburg 138KV: Change CTs.	CSWS	90	04SP	6/1/04	8	5/2/02		5/2/02		6/1/06
Broken Bow - Bethel 138kV: Rebuild 9.19 miles with 795 ACSR.	CSWS	138 (3)	04SP	6/1/04	24	9/1/03		2/1/04		6/1/06
Minimum 6/1 - 10/1 2005:		86								
Minimum 6/1 - 10/1 2006:		150								
Sikeston-Minor: Rebuild 10 miles and upgrade each station.	SPA	0 (3)	04WP	12/1/02	24	9/1/03	9	2/1/04	14	6/1/04
Minimum 12/1/04 - 4/1/05 & 12/1/05 - 4/1/06:		150								

- 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.

**Table 40 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2 (Continued)  
 Transfer Limits Given Engineering And Construction Lead Times  
 Of Previously Assigned Facilities And Facilities Assigned To This Request  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

PREVIOUS OR THIS 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 194668 + 194669 For 150MW Transfer, SPP-2000-044-2, With A Contract Date Of 9/1/01 (Continued).										
Summary of seasonal ATC with upgrades:										
Minimum 6/1 - 10/1, 2005:		86								
Minimum 6/1 - 10/1, 2006:		150								
Minimum 12/1 - 4/1 2005 & 2006:		150								
Minimum 4/1 - 6/1 2005 & 2006:		150								
Summary of annual ATC with upgrades:										
10/1/04 - 10/1/05:		86								
10/1/05 - 10/1/06:		150								

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 41 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**

**Summary Of Available Transfer Capability**

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

**For Requests 194668 & 194669 From CSWS To Ameren**

**During The Period From October 1, 2004 To October 1, 2006**

OPERATING PERIOD (YEAR)	OPERATING PERIOD (M/D - M/D)	ATC (MW)
2002	12/1 – 12/31	0
2003	1/1 – 12/31	0
2004	1/1 – 10/1	0
2004	10/1 – 12/31	86
2005	1/1 – 10/1	86
2005	10/1 – 12/31	150
2006	1/1 – 10/1	150

Note: Values of ATC are based on items received by September 1, 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 42 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**  
**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 Requests 194668 & 194669 From CSWS To Ameren**  
**During The Period From October 1, 2004 To October 1, 2006**

OPERATING PERIOD (MONTH)	2004 ATC (MW)	2004 BASE RATE REVENUES (\$)	2005 ATC (MW)	2005 BASE RATE REVENUES (\$)	2006 ATC (MW)	2006 BASE RATE REVENUES (\$)
January	N/A	N/A	86	59,340	150	103,500
February	N/A	N/A	86	59,340	150	103,500
March	N/A	N/A	86	59,340	150	103,500
April	N/A	N/A	86	59,340	150	103,500
May	N/A	N/A	86	59,340	150	103,500
June	N/A	N/A	86	59,340	150	103,500
July	N/A	N/A	86	59,340	150	103,500
August	N/A	N/A	86	59,340	150	103,500
September	N/A	N/A	86	59,340	150	103,500
October	86	59,340	150	103,500	N/A	N/A
November	86	59,340	150	103,500	N/A	N/A
December	86	59,340	150	103,500	N/A	N/A
<b>SUBTOTAL BY YEAR</b>		<b>\$178,020</b>		<b>\$844,560</b>		<b>\$931,500</b>
<b>TOTAL FOR ALL YEARS</b>						<b>\$1,954,080</b>

Note: Values of ATC are based on items received by September 1, 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 43 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2**

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

**And The Estimate Of Network Upgrade Revenue Requirements Only**

**For Requests 194668 & 194669 From CSWS To Ameren**

**During The Period From October 1, 2004 To October 1, 2006**

OPERATING PERIOD (Month)	2004 ATC (MW)	2004 NETWORK UPGRADE REVENUES (\$)	2005 ATC (MW)	2005 NETWORK UPGRADE REVENUES (\$)	2006 ATC (MW)	2006 NETWORK UPGRADE REVENUES (\$)
January	N/A	N/A	86	1,314,916	150	1,314,916
February	N/A	N/A	86	1,314,916	150	1,314,916
March	N/A	N/A	86	1,314,916	150	1,314,916
April	N/A	N/A	86	1,314,916	150	1,314,916
May	N/A	N/A	86	1,314,916	150	1,314,916
June	N/A	N/A	86	1,314,916	150	1,314,916
July	N/A	N/A	86	1,314,916	150	1,314,916
August	N/A	N/A	86	1,314,916	150	1,314,916
September	N/A	N/A	86	1,314,916	150	1,314,916
October	86	1,314,916	150	1,314,916	N/A	N/A
November	86	1,314,916	150	1,314,916	N/A	N/A
December	86	1,314,916	150	1,314,916	N/A	N/A
SUBTOTAL BY YEAR	\$3,944,748		\$15,778,992		\$11,834,244	
TOTAL FOR ALL YEARS						\$31,557,984

Note: Values of ATC are based on items received by September 1, 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 44 – Alternative #4 Deferral Case For 86MW And Then 150MW In Year 2  
 Identified Third-Party Network Upgrades & Required In-Service Dates  
 To Accommodate This Request For Transmission Service  
 For Requests 194668 & 194669 From CSWS To Ameren  
 During The Period From October 1, 2004 To October 1, 2006**

IDENTIFIED THIRD-PARTY NETWORK UPGRADE	DATE NEEDED (M/D/Y)
CELE-EES 50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	12/1/04
EES-EES 97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	4/1/05
EES-EES 97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	4/1/05
EES-EES 97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	4/1/05
EES-EES 99146 3STERL 115 to 99232 3CROS-N 115 CKT 1	12/1/04
EES-EES 99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	12/1/04
EES-EES 99168 3SAILES 115 to 99179 3ADA 11 115 CKT 1	12/1/04
EES-EES 99171 3SPRINGH 115 to 99280 3TAYLOR 115 CKT 1	6/1/05
EES-EES 99230 3COUCH 115 to 99310 3MCNEIL 115 CKT 1	12/1/04
EES-EES 99263 3LEWIS # 115 to 99230 3COUCH 115 CKT 1	12/1/04
EES-EES 99303 3PATMOS# 115 to 99263 3LEWIS # 115 CKT 1	12/1/04
EES-EES 99380 3HOPE E# 115 to 99230 3COUCH 115 CKT 1	6/1/05
EES-EES 99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	12/1/04
EES-EES 99782 5TRUMAN 161 to 99750 5HRSEBRG* 161 CKT 1	6/1/05
EES-EES 99782 5TRUMAN 161 to 99781 5TRUM-W# 161 CKT 1	6/1/05