



***System Impact Study SPP-2001-179  
For Transmission Service  
Requested By  
NRG Power Marketing***

***From OKGE to SPS***

***For a Reserved Amount Of 200MW  
From 7/1/01  
To 7/1/02***

***SPP Transmission Planning***

## **Executive Summary**

NRG Power Marketing has requested a system impact study for long-term Firm Point-to-Point transmission service from OKGE to SPS. The period of the transaction is from 7/1/01 to 7/1/02. The request is for OASIS reservations 252519 and 252521-252523, totaling 200MW.

The Available Transfer Capability from SPP to SPS is zero for the months of July 2001 through September 2001 and January 2002 through June 2002. The ATC was determined by using calculated Total Transfer Capability for SPS Imports and the Transmission Reliability Margin for SPS Imports of 540MW.

Table 1 documents the ATC determination and the higher priority transmission requests over the SPP to SPS interface during the requested transmission service period of 7/1/01 to 7/1/02. The higher priority requests include previously confirmed reservations and reservations currently being studied.

Since no ATC is available over the SPP to SPS interface for the months of July 2001 through September 2001 and January 2002 through June 2002, the requested reservations will be refused.

## **Study Results**

The ATC determination and the higher priority transmission requests over the SPP to SPS interface are documented in Table 1. The higher priority requests include previously confirmed reservations and reservations currently being studied. The ATC will be given to the confirmed reservations, and the remaining ATC will be granted to the reservations being studied by the first-come, first-serve principle.

The seasonal TTC values were previously calculated and are based on Voltage Stability Limitations that exist on the SPP to SPS Interface. Due to the already determined SPS import limitations and ATC available; a steady-state analysis impact of the requested transmission reservations was not performed to determine thermal limitations.

## **Conclusion**

Given the monthly zero ATC for SPS imports during the requested transmission service period, the requested reservations will be refused.

**Table 1: Available Transfer Capability for SPS Imports**

Request	From	To	POR	POD	Amnt	Customer	Status	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	
136714	1/1/2002	1/1/2007	AMRN	SPS	50	SPSM	Confirmed							50	50	50	50	50	50	
136717	1/1/2002	1/1/2007	AMRN	SPS	50	SPSM	Confirmed							50	50	50	50	50	50	
136718	1/1/2002	1/1/2007	AMRN	SPS	50	SPSM	Confirmed							50	50	50	50	50	50	
136724	1/1/2002	1/1/2007	AMRN	SPS	36	SPSM	Confirmed							50	50	50	50	50	50	
227799	6/1/2001	6/1/2002	OKGE	SPS	75	OPMC	Study	75	75	75	75	75	75	75	75	75	75	75	75	
229925	1/1/2002	1/1/2003	AMRN	SPS	50	SPSM	Study							50	50	50	50	50	50	
229926	1/1/2002	1/1/2003	AMRN	SPS	50	SPSM	Study							50	50	50	50	50	50	
237266	1/1/2002	1/1/2003	AMRN	SPS	3	SPSM	Study							3	3	3	3	3	3	
237267	1/1/2002	1/1/2003	AMRN	SPS	50	SPSM	Study							50	50	50	50	50	50	
237268	1/1/2002	1/1/2003	AMRN	SPS	50	SPSM	Study							50	50	50	50	50	50	
242232	2/1/2002	3/1/2012	WR	BLKW	200	WRGS	Study								200	200	200	200	200	
242360	6/1/2001	6/1/2002	EES	SPS	50	NRG	Study	50	50	50	50	50	50	50	50	50	50	50	50	
242361	6/1/2001	6/1/2002	EES	SPS	50	NRG	Study	50	50	50	50	50	50	50	50	50	50	50	50	
248366	3/1/2002	3/1/2012	WR	BLKW	100	PNMM	Study									100	100	100	100	
Total Transfer Capability (TTC)								599	599	599	952	952	971	971	971	971	912	912	769	
Transmission Reliability Margin (TRM)								540	540	540	540	540	540	540	540	540	540	540	540	540
Total Amount of Higher Priority Requests								175	175	175	175	175	175	578	778	878	878	878	703	
Available Transfer Capability (ATC)								0	0	0	237	237	256	0	0	0	0	0	0	