



# **SPP** *Southwest Power Pool*

***System Impact Study SPP-2001-064  
For Transmission Service  
Requested By  
Tenaska Power Service Company***

***From ERCOTE to AECI***

***For a Reserved Amount Of 50MW  
From 4/1/01  
To 4/1/02***

***SPP Transmission Planning***

## Summary

Tenaska Power Service Company has requested a Yearly Firm reservation for 50MW from ERCOTE to AECI. This is for OASIS Reservation 230754 for the period of 4/01/01 to 4/01/02.

The models used for the 50MW study are modified to reflect all current requested reservations that are queued before the ERCOTE to AECI 50MW transfer.

This study was performed to identify the constraints on the SPP Regional Tariff System that result in zero capacity available for the 50MW request. For this study, the limiting element is the IPC Jefferson to Lieberman, 138kV circuit.

## Results

Several previous studies have overloaded facilities within the SPP system, one of these being the IPC Jefferson to Lieberman, 138kV circuit. Upgrades have been assigned to SPP System Impact Study SPP-2000-086 for OASIS Reservation 150680 for the purpose of relieving this overloaded facility. However, these upgrades are not scheduled for completion until 2004. The ATC is zero for the months of June through September prior to the completion of the upgrades on the IPC Jefferson to Lieberman, 138kV circuit.

NETWORK SYSTEM IMPROVEMENT	ENGINEERING & CONSTRUCTION COSTS (\$ 2000 )	ENGINEERING & CONSTRUCTION LEAD TIME	DATE IN SERVICE (M/D/Y)
IPC Jefferson - Lieberman 138kV: Replace Jumpers & Wavetrap by CSWS	10,000	Six (6) Months	2/1/02
IPC Jefferson - Lieberman 138kV: Reconductor 26.35 miles To 795MCM by CSWS	6,231,585	Thirty (30) Months	2/1/04

The ERCOTE to AECI transfer increases the loading on the IPC Jefferson to Lieberman 138kV line with a response factor of 4.5%. Due to the impact on the previously overloaded IPC Jefferson to Lieberman, 138kV circuit, there is zero ATC available for the 50MW request from ERCOTE to AECI.