



SPP *Southwest
Power Pool*

***System Impact Study SPP-2002-239
For Transmission Service
Requested By
Cleco Power LLC***

From SPA To CLEC

***For a Reserved Amount Of
3MW From 1/1/2004 To 1/1/2006***

SPP Coordinated Planning

System Impact Study

Cleco Power LLC has requested a system impact study for long-term Firm Point-to-Point transmission service from SPA to CLEC. The period of the transaction is from 1/1/2004 to 1/1/2006. The request is for OASIS reservation 463631 for an amount of 3 MW.

The principal objective of this study is to identify constraints on the SPP Regional Tariff System and potential facility upgrades that may be necessary to facilitate the additional 3 MW of service requested.

The 3 MW SPA to CLEC transfer was studied to determine the facility upgrades required based on the actual queue position of the request with only those higher priority requests in Facility Study mode included in the models. Higher priority requests still in study that have not gone to facility study were not included in the models. These results are documented in Table 1 of the report. The results given in Table 1 include upgrades that may be assigned to higher priority requests. The results of this study give the customer an estimated cost of facility upgrades that may be required in order to accommodate the 3 MW SPA to CLEC transfer.

SPP used seven seasonal models to study the SPA to CLEC 3 MW transfer for the requested service period. The SPP 2003 Series Cases 2003/04 Winter Peak, 2004 Spring, 2004 Summer Peak, 2004 Fall Peak, 2004/05 Winter Peak, 2009 Summer Peak and 2009/10 Winter Peak were used to study the impact of the 3 MW transfer on the SPP system during the requested service period of 1/1/2004 to 1/1/2006. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March. The chosen base case models were modified to reflect the most current modeling information. The cases were modified to reflect firm transfers during the requested service period that were not already included in the January 2003 base case series models.

With only the higher priority requests that have signed Facility Study Agreements included in the models, the study results of the SPA to CLEC 3 MW show that limiting constraints exist. Due to the number of limiting constraints identified, the Transmission Service Request cannot be granted. The upgrades and cost provided in the System Impact Study are planning estimates only. The final ATC and upgrades required may vary from these results due to the status of higher priority requests, unknown facility upgrades that will be identified during the facility study process, and the final results of the full AC analysis. Execution of a Facility Study Agreement is now required to maintain queue position. The final upgrade solutions and cost assignments will be determined upon the completion of the facility study.

Table 1 – SPP facility upgrades identified for the SPA to CLEC transfer

Study Year	From Area - To Area	Branch Over 100% Rate B	Rate B	Outaged Branch Causing Overload	ATC	Solution	Estimated Cost
04SP	AEPW-AEPW	CHEROKEE REC - KNOX LEE 138KV	209	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport to Diana 345kV	0	AEPW Planned Upgrade Estimated Completion 5/1/2005 - Reconductor 3.25 miles of 666 ACSR with 1272 ACSR.	\$ 981,000
04SP	AEPW-AEPW	CHEROKEE REC - TATUM 138KV	209	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport to Diana 345kV	0	AEPW Planned Upgrade Estimated Completion 5/1/2005 - Reconductor 6.25 miles of 666 ACSR with 1272 ACSR.	\$ 1,641,000
04SP	AEPW-AEPW	ROCK HILL - TATUM 138KV	209	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport to Diana 345kV	0	AEPW Planned Upgrade Estimated Completion 5/1/05 - Reconductor 0.81 miles 666MCM to 1272 ACSR.	\$ 342,970
09SP	AEPW-AEPW	LONGWOOD - OAK PAN-HARR REC 138KV	209	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport to Diana 345kV	0	Rebuild 1.8 miles of 666 ACSR with 1590 ACSR	\$ 750,000
09SP	GRRD-GRRD	412SUB - KERR 161KV	338	FLINT CREEK - GRDA1 345KV	0	Reconductor 12.5 miles with 1590MCM ACSR.	\$ 1,918,000
Total							\$ 5,632,970