Progress Energy

Carolina Power & Light

Transmission Studies

This page contains a summary description with dates, and programs used of all transmission studies used to prepare data for the Primary Provider's ATC and TTC calculation along with information as to how to obtain the study data and results.

LISTS OF STUDIES

Operating & Operational Planning Horizon (current day - six months)

ATC and TTC results are computed using distribution factors. The ATCs computed honor thermal limits, contract limits, heuristically calculated voltage collapse limits, and test levels performed in the VAST OASIS Studies. The base flows used for analysis are calculated from an ESCA power flow program. Peak ATC calculations use the expected peak load for that general period. Off-peak ATC calculations use 80% of the expected peak load. The effect of each transmission reservation on every path's ATC is calculated based on the given source and sink. Sources and sinks are grouped on a control area basis.

More detailed modeling may be required for specific transmission requests.

Planning Horizon (beyond six months)

The monthly transmission transfer capability information posted is based on VAST OASIS Study results. These studies will be used as a starting point in calculating CP&L's ATC values to model known outages of generation and transmission elements deemed to have a significant impact on transmission transfer capability. The VAST OASIS studies used consist of a rolling series of five cases representing winter, spring, summer, fall and

the next season. These cases are updated quarterly by the VAST OASIS process. For use in calculating ATC values:

- Summer Case - used for June, July, August, & September
- Fall Case - used for October & November
- Winter Case - used for December, January, & February
- Spring Case - used for March, April, & May

Available Studies

Following the receipt of a Completed Application for Transmission Service, CP&L reviews the available transmission capacity and determines if it will be able to provide service without a System Impact Study or if such a study is needed. For a list of available studies, click on the following link:
System Studies

WIRING INFORMATION

The following link provides wiring information which may be used for study deposits, etc.:
Transmission Related Wiring Information (PDF Format)

WHERE TO CONTACT FOR FURTHER INFORMATION:

Questions regarding this information should be made to: (919) 546-7706