



North Carolina Transmission Planning Collaborative Overview

Clay Norris, Chair OSC
October 5, 2005



Overview

- Summary of NC Transmission Planning Collaborative
- Implementation Status



Traditional Transmission Planning Process

- Transmission plans developed independently by each IOU for their own control areas
- Limited involvement from munis, co-ops and other transmission-dependent utilities
- Emphasis on reliability



Goals of the Process

- Improve the transmission planning process in North Carolina
- Increase involvement by all stakeholders



Changes to the Planning Process

- Each Participant will actively participate
- The Transmission Advisory Group (TAG) will allow participation by all stakeholders
- Collaborative development of a single transmission plan for Duke Power and Progress Energy Carolinas areas
- An Independent Third Party will be an integral part of the process and a “tie-breaker” for voting
- Simultaneous focus on reliability and enhanced access



Organizational Structure

- **Oversight / Steering Committee (OSC)**
- **Planning Working Group (PWG)**
- **Transmission Advisory Group (TAG)**
- **Independent Third Party (ITP)**



OSC Responsibilities

- Review and approve the reliability and enhanced transmission access planning criteria, critical assumptions and scenarios to be used by the PWG
- Oversee the study process and approve the plan



OSC Membership

- Cooperatives – 2 members
 - Duke – 2 members
 - Municipals – 2 members
 - PEC – 2 members
 - ITP – 1 member
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- Each member has 1 vote



PWG Responsibilities

- Model development, model runs, problem identification, solution development and plan development
- Reports results to the OSC



PWG Membership

- Cooperatives – 3 members
- Duke – 3 members
- Municipals – 3 members
- PEC – 3 members
- ITP – 1 member



Transmission Advisory Group

- The purpose of the TAG is to provide advice and recommendations to the OSC which will aid in the development of a coordinated transmission plan
- The TAG will be facilitated by the ITP
- Membership open to all stakeholders



Independent Third Party Role

- Serves on the OSC and PWG and will vote to break a tie in the OSC
- Facilitates and advises the entire process



Where are we in the process?

- The Participation Agreement was executed on May 20, 2005
- Gestalt LLC was selected as the ITP in August 2005
- Top Priorities
 - Establish TAG
 - Implement new collaborative process



North Carolina Transmission Planning Collaborative Process

Mark Byrd, Vice-Chair OSC

October 5, 2005



Overview

- Goal of Process
- Components of Process
 - Reliability Process
 - Enhanced Transmission Access Process
- Schedule Milestones



Goal of the Process

Develop a single coordinated transmission plan that includes both reliability and enhanced access plans and that appropriately balances costs, benefits and risks associated with the use of transmission and generation resources.



Components of the Process

- Reliability Process
- Enhanced Transmission Access Process



Reliability Plan

- Improvements justified for reliability purposes
- Developed by PWG and approved by OSC



Enhanced Transmission Access Plan

- Expand the transmission planning process to include analysis of increased transmission capability to provide greater access to resources inside and outside the control areas of Duke and Progress.
- PWG develops increased transmission capabilities, cost estimates, implementation timelines and project feasibility.



Reliability Planning Process

- Establish assumptions, criteria, and study methodologies
- Perform studies: thermal, voltage, stability, short circuit
- Evaluate results to identify problems and potential solutions
- Perform cost analysis and rough scheduling of solutions
- Input from Participants and TAG periodically throughout process
- Select preferred final and alternative plans



Enhanced Transmission Access Planning Process

- Identify scenarios to be studied and included for analysis
- Establish assumptions and criteria
- Evaluate results to identify problems and potential solutions for increasing access
- PWG develops increased transmission capabilities, cost estimates, implementation timelines and project feasibility



Schedule Milestones

- December 2005: OSC approves reliability assumptions
- May 2006: OSC approves enhanced transmission access assumptions and studies to be conducted
- September 2006: OSC approves reliability plan and reviews enhanced transmission access project cost, schedule, and potential increased transmission capability
- December 2006: Final draft of collaborative plan



Transmission Advisory Group

Rich Wodyka
October 5, 2005



TAG Overview

- Purpose
- Role
- Membership
- Process
- Independent Third Party Duties
- Discussion



TAG Purpose

The purpose of the TAG is to provide advice and recommendations to the OSC which will aid in the development of a collaborative transmission plan.



TAG Role

- The TAG will provide input to the planning process.
- Inputs may include:
 - Proposing reliability studies/projects to the OSC
 - Proposing enhanced access studies/projects to the OSC
 - Providing generator information to the process



TAG Membership

TAG membership is open to all parties interested in the development of a collaborative transmission plan in North Carolina.



TAG Process

- Meetings are open to all parties with no restrictions on the number of people from any organization.
- Members will make recommendations for improvements or changes to the transmission plan or planning process through the ITP.
- Non-binding straw votes may be used to achieve consensus. One vote per stakeholder entity.
- Quorum requirements do not apply.
- Meeting highlights will be posted on website.



Duties of the ITP include:

- Chairing the TAG meetings
- Developing mechanisms to solicit and obtain the input of all stakeholders
- Serving as a facilitator to achieve consensus
- Developing and maintaining a website to support TAG activities



Discussion

- Opinions
- Needs
- Suggestions
- Next Steps



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