



# **Transmission Advisory Group Scope**

**Rich Wodyka  
February 3, 2006**



# **TAG Scope Overview**

- **Purpose**
- **Responsibilities**
- **Membership**
- **Meeting Chair**
- **Meeting Procedures**



## **TAG Purpose**

- **Formed from the NC Load Serving Entities' Transmission Planning Participation Agreement**
- **Provide advice and recommendations to the Agreement Participants in the development of a Coordinated Transmission Plan for NC**



## **TAG Responsibilities**

- **Work constructively with the Agreement Participants in the development of a Coordinated Transmission Plan for NC**
- **Duties**
  - **Adhere to FERC Standards of Conduct**
  - **Participate in TAG meetings**
  - **Provide timely input on the associated issues**
  - **Provide input to the OSC on process and results**



# **TAG Membership**

**Open to all parties interested in the  
development of a Coordinated  
Transmission Plan for NC**

**[www.nctpc.org/nctpc](http://www.nctpc.org/nctpc)**

**[Sign up for TAG Distribution List](#)**



# **TAG Meeting Chair**

- **Independent third-party (Gestalt, LLC) hired by Agreement Participants**
- **Facilitator for TAG - working to develop consensus**
- **Duties**
  - **Organize and Chair the TAG meeting**
  - **Solicit input from TAG**
  - **Take action to ensure no preferential treatment or competitive advantage results from TAG activities**
  - **Ensure information confidentiality and Standards of Conduct are being adhered to in the TAG process**
  - **Responsible for TAG meeting highlights being taken and posted on the NCTPC website**



# **TAG Meeting Procedures**

- **TAG meetings – open to all, no restrictions on number of attendees**
- **Quorum – no requirements**
- **Voting – one vote per organization in attendance at the meeting, no proxy votes**
- **Protocol – Robert’s Rules of Order**



# **TAG Scope Document**

**QUESTIONS ?**

**or**

**COMMENTS**

**Scope Document Approval**



# **Transmission Advisory Group NCTPC Process Update**

David Beam, NCEMC

February 3, 2006



# Overview

- Provide Participants and other stakeholders the opportunity to participate in the NC Transmission Planning Collaborative (NCTPC) process
- Preserve integrity of the current reliability and least cost planning process
- Analysis of increased access to resources inside and outside Progress and Duke control areas
- Develop a single transmission plan that includes reliability and enhanced access solutions while appropriately balancing costs, benefits and risks



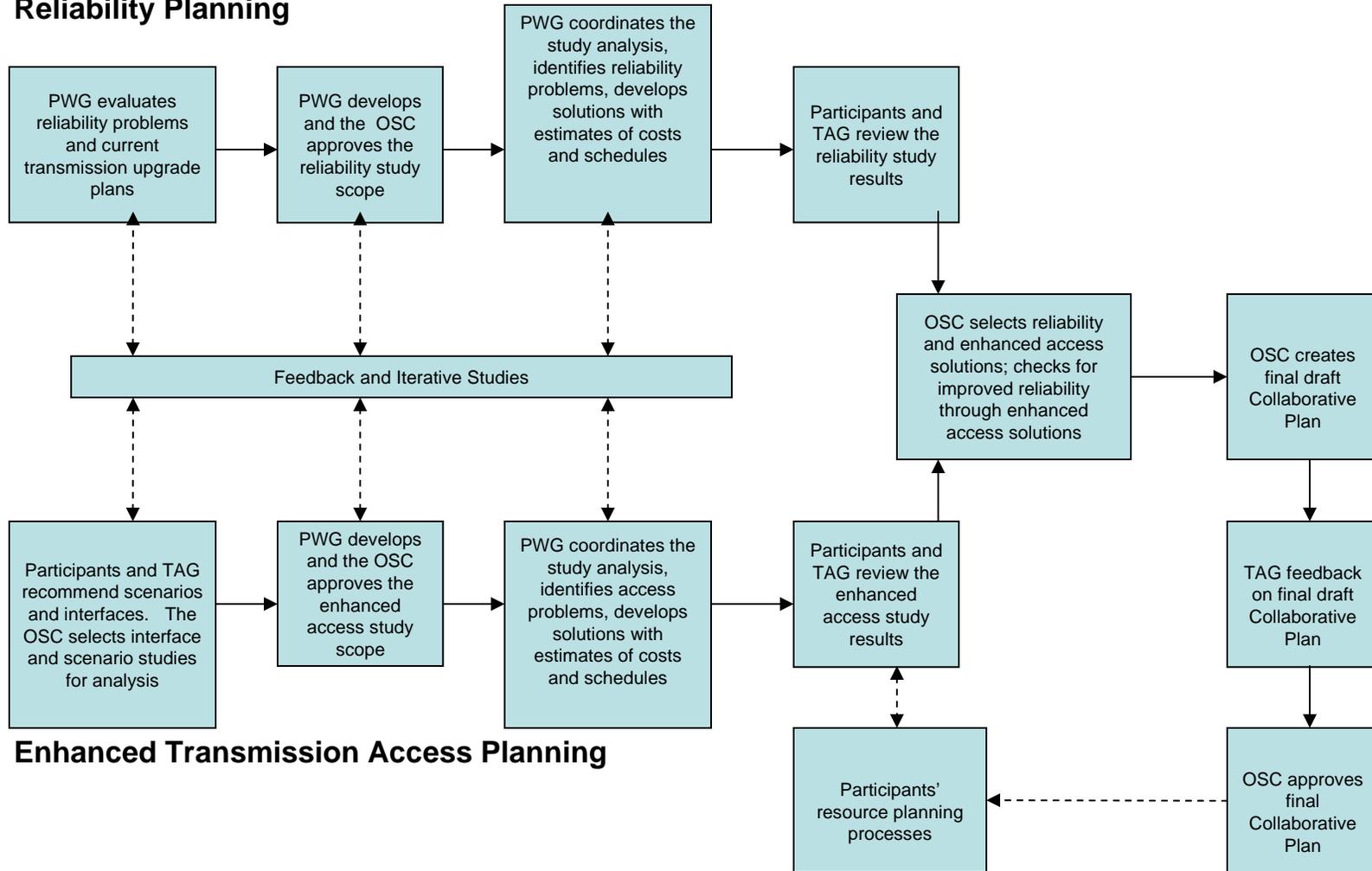
# Roles

- **Oversight Steering Committee (OSC)** – overall responsibility for managing the process
- **Planning Working Group (PWG)** – support development of the Process and conduct studies
- **Transmission Advisory Group (TAG)** – Advice and recommendations on Process and study results



## NCTPC Process Flowchart

### Reliability Planning





# Reliability Planning Process

- Expansion of process traditionally used by transmission owners to ensure reliability
- OSC to establish scope and oversee study analysis
- Start with most recent reliability studies and planned transmission upgrades
- PWG will conduct reliability studies based on approved scope and develop recommendations



# Reliability Planning Process Results

- Results include the estimated costs and schedules for upgrades needed to maintain reliable service to native load of the Participants
- Participants and TAG review and comment on results
- OSC reviews comments and directs additional analysis, if needed
- OSC finalizes reliability solutions to be carried forward into a single Collaborative Plan



# Enhanced Transmission Access Planning (ETAP) Process

- ETAP evaluates means to increase access to resources inside and outside Progress and Duke control areas
- OSC to approve scope, assumptions and oversee PWG study process
- Participants and TAG propose scenarios and interfaces to be studied
- OSC decides what scenarios and interfaces will be analyzed in 2006 Planning Process
- PWG will conduct studies based on approved scope and develop recommended solutions



## **ETAP Results**

- Results include the estimated costs and schedules for increased transmission capabilities
- Participants and TAG review results
- OSC reviews comments and directs additional analysis, if needed
- OSC finalizes results and decides on the enhance access solutions to be carried forward in to a single Collaborative Plan



# Collaborative Transmission Plan

- OSC reviews combined reliability and ETAP results and develops a Draft of the final Collaborative Plan
- TAG reviews and provides input to OSC
- OSC reviews comments and develops the 2006 final Collaborative Plan
- Final Collaborative Plan gets factored into the Participants' future Integrated Resource Plans
- TAG members and other stakeholders can use this information for their own planning processes



# 2006 Overview Schedule

## North Carolina Transmission Planning Collaborative

### Reliability Planning Process

- Evaluate current reliability problems and transmission upgrade plans
  - Develop Reliability Study Scope
    - Perform analysis, identify problems, and develop solutions
    - Review Reliability Study Results

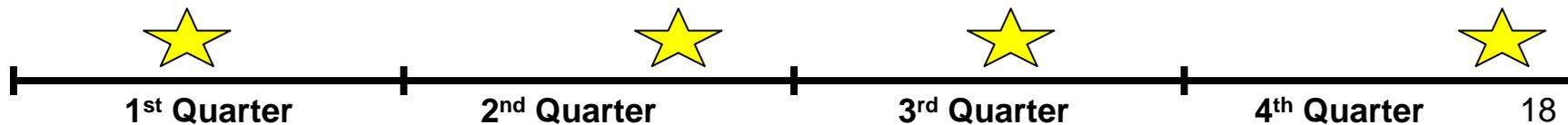
### Enhanced Access Planning Process

- Propose and select enhanced access scenarios and interface
  - Develop Enhanced Access Study Scope
    - Perform analysis, identify problems, and develop solutions
    - Review Enhanced Access Study Results

### Coordinated Plan Development

- Combine Reliability and Enhanced Results
  - OSC publishes DRAFT Plan
    - TAG review and comment

**TAG Meetings**





**Questions?  
or  
Comments**



# **Transmission Advisory Group Planning Process Status**

**Bryan Guy, Chair PWG**

**February 3, 2005**



# Overview

- **Planning practices**
- **Study**
- **Improvements**



# Planning Practices

- **Shared planning practices among Participants**
- **Identified similarities and differences**



# Study

- **Assumptions**
  - **2011 Summer**
  - **LSE input for load and resources**
  - **Dispatch order provided by LSEs**
  - **Coordinated Interchange**



# Study

- **Study Criteria**
  - **NERC Reliability Standards**
  - **SERC Requirements**
  - **Individual company criteria**



# Study

- **Case Development**
  - **Latest MMWG/VSTE case updated**
  - **Combined detailed model for Duke and PEC**
  - **Model planned transmission additions**



# Study

- **Methodology**
  - **Thermal Load Flow Analysis**
  - **Duke and PEC Contingencies**
  - **Duke and PEC Monitored Elements**
  - **Study voltage, stability, short circuit, phase angle as needed**



# Study

- **Technical Analysis**
  - Identify problems
- **Solutions**
  - Jointly develop potential solutions and test
  - Estimate cost and schedule



# Study

- **Reliability Study Results**
  - **Compare alternatives**
  - **Select solutions**
  - **Select set of transmission improvements**



## **NCTPC Improvements Now**

- **Common planning cycle**
- **Integrated detailed modeling**
- **Detailed verification of resources and load**
- **Coordinated dispatch**
- **Expanded contingency analysis**
- **More informed planning back at the office**



**Questions?  
or  
Comments**



# **Transmission Advisory Group Enhanced Transmission Access Planning**

**Pam Kozlowski  
February 3, 2006**

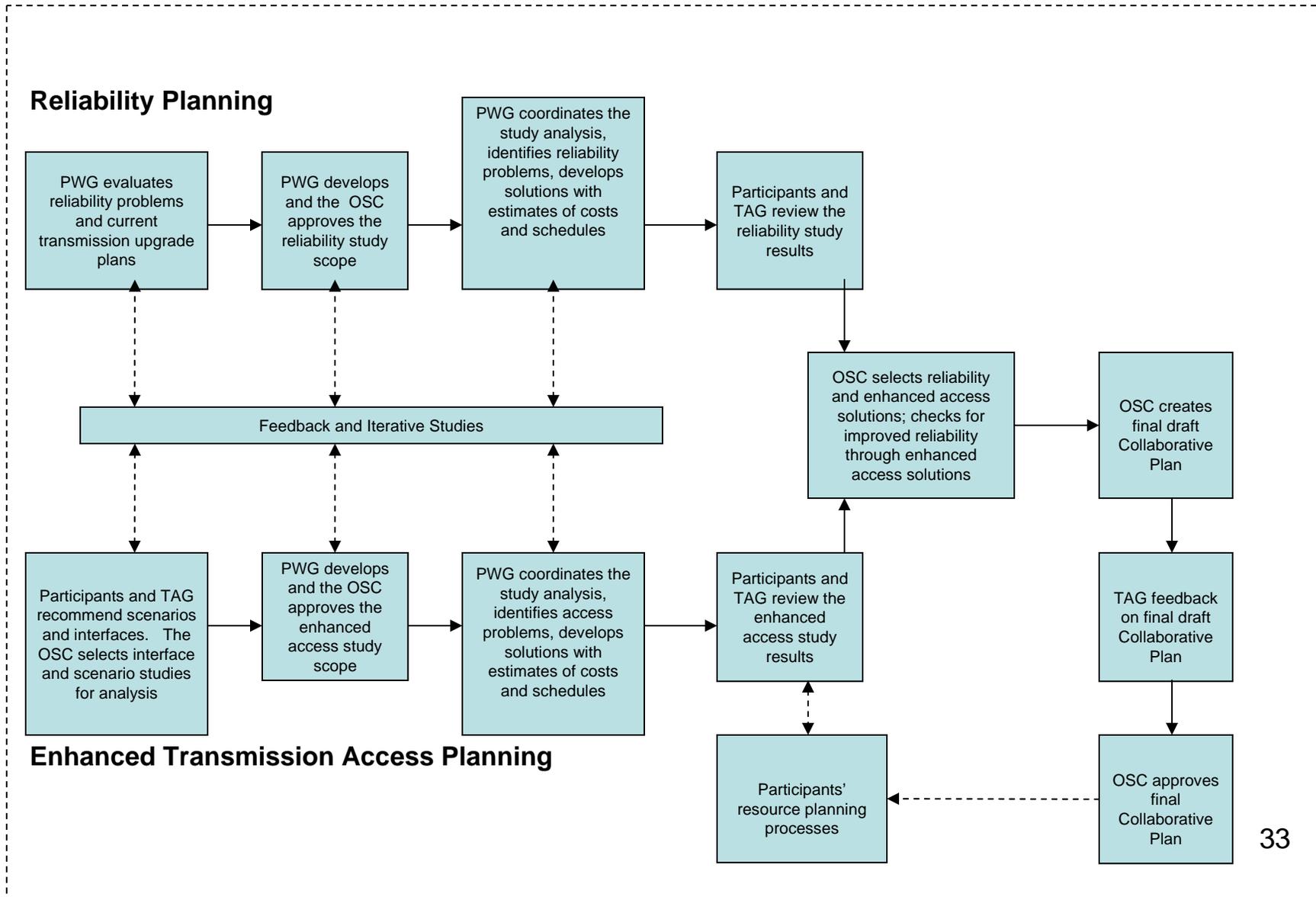


## **Enhanced Transmission Access Planning**

- **PURPOSE - Evaluate the means to increase transmission access to potential resources inside and outside the control areas of Duke and Progress to serve load in NC.**
- **STEP 1 - Participants and TAG members propose scenarios and interfaces to be studied.**



# North Carolina Transmission Planning Collaborative





## Enhanced Transmission Access Option Form – Part 1

Date of Submittal
Submitting Company
Company Contact
Contact Phone Number
Contact E-Mail Address



## Enhanced Transmission Access Option Form – Part 2

<p>Sink</p> <ol style="list-style-type: none"> <li>1. Specify Duke, CPLE, or CPLW as the sink control area.</li> <li>2. Specify LSE, if applicable.</li> </ol>	
<p>Source</p> <ol style="list-style-type: none"> <li>1. Specify the source control area.</li> <li>2. Specify if the transaction is a system purchase or purchase from a specific generator(s). If from a specific generator(s), provide location of the generator for proper modeling. Attach interconnection one-line diagram as necessary.</li> </ol>	
<p>Point-of-Receipt/Point-of Delivery Path: (Examples: AEP/DUK – DUK/CPLE; SCEG/CPLE; SOCO/DUK)</p>	
<p>Maximum Capacity in MW</p> <p>Summer</p> <p>Winter</p>	
<p>Start date</p>	
<p>End date, if applicable</p>	
<p>Purpose and benefit for this study request.</p>	



## **Enhanced Transmission Access Planning**

- **TAG Responses – Due by February 17, 2006**
- **Email Forms to: Pam Kozlowski, Gestalt LLC**  
[pkozlowski@gestalt-llc.com](mailto:pkozlowski@gestalt-llc.com)
- **PWG reviews all proposed scenarios / interfaces and provides OSC a recommendation on the Enhanced Transmission Access Options for analysis in 2006**
- **OSC provides TAG feedback in 2<sup>nd</sup> Quarter**



# **Enhanced Transmission Access Planning – TAG Input**

**QUESTIONS ?**

**or**

**COMMENTS**



# **Transmission Advisory Group 2006 Activity Schedule**

**Rich Wodyka  
February 3, 2006**



## **2006 - 1<sup>st</sup> Quarter Activities**

- **Receive update and provide comments on the NCTPC Process**
- **Provide comments on the Scope of TAG**
- **Review and comment on the 2006 TAG Activity Schedule**
- **Provide input to the OSC on proposed Enhanced Transmission Access scenarios and interfaces for study**



## **2006 - 2<sup>nd</sup> Quarter Activities**

- **Receive OSC feedback on the Enhanced Transmission Access scenarios and interfaces selected for analysis in 2006**
- **Receive update on the Reliability Planning studies**



## **2006 - 3<sup>rd</sup> Quarter Activities**

- **Review and comment on the Reliability Planning study results**
- **Receive update on the Enhanced Transmission Access Planning studies**



## **2006 - 4<sup>th</sup> Quarter Activities**

- **Review and comment on the Enhanced Transmission Access Planning study results**
- **Review draft of final combined Collaborative Transmission Plan**
- **Provide feedback to the OSC on the 2006 NCTPC Process**



# **TAG 2006 Activity Schedule**

**QUESTIONS ?**

**or**

**COMMENTS**



# Transmission Advisory Group

## Open Forum Discussion