TAG Meeting November 15, 2007

ElectriCities Office Raleigh, NC



TAG Meeting Agenda

- 1. Update on the Duke and Progress draft Attachment K
- 2. Discuss the proposed changes to the NCTPC Process document and the TAG Scope document
- 3. Update on the preliminary 2007 study results and the upcoming planned activities
- 4. Open Forum discussion

Duke / Progress Draft Attachment K Update

Jeff Trepel Duke Energy



- Order 890 requires Transmission Providers to file Attachment K on December 7th to meet the nine principles of transmission planning
- Duke and PEC
 - 5/31/07 Posted strawman
 - 9/15/07 Posted draft Attachment K filing
 - 9/17/07 Reviewed and discussed draft Attachment
 K filing with TAG
 - 11/13/07- Provided an updated draft
 - Today Review and discuss updated draft with TAG
 - 12/7/07- Plan to File Attachment K



Ore	der 890 Principles & White Paper Recommendations	Duke/Progress DRAFT Attachment K
1.	Coordination	
2.	Openness	
3.	Transparency	
4.	Information Exchange	
5.	Comparability	
6.	Dispute Resolution	
7.	Regional Participation	
8.	Economic Planning Studies	
9.	Cost Allocation	



Major Areas of Change

- > TAG
- Enhanced Transmission Access Planning Studies
- Regional Economic Transmission Paths
- Data to Replicate Planning Studies
- > Other
 - Dispute Resolution
 - Local Planning

> TAG Membership (Sec 2.3.2.3)

- Open to Valid Stakeholders
- Valid Stakeholders:
 - Eligible Customers; state or federal agencies; entities that can provide ancillary services under the OATT; Transmission Owner, Operator or Planner.
- Transmission function of NCTPC Participant may not be TAG member, but a merchant function of NCTPC Participant may be a TAG member

> TAG Meetings (Sec 3.3.3.3)

 Open to TAG members, NCTPC Participants and interested 3rd parties



> TAG Decision Making (Sec 2.4.3.2)

- By consensus
- If voting needed, each valid stakeholder will have one vote
- To vote must be participating in meeting- in person on via phone.
- Single person may represent more than one TAG member



TAG Responsibilities (Sec 2.4.3.1 and Sec 5)

- Propose and select the ETAPs
- Provide input on Annual study scope of Reliability and ETAP planning process
 - Study assumptions, criteria and methodology
 - Case development, technical analysis
 - Problem Identification, assessment and development of solutions (including proposal of alternative solutions for evaluation)

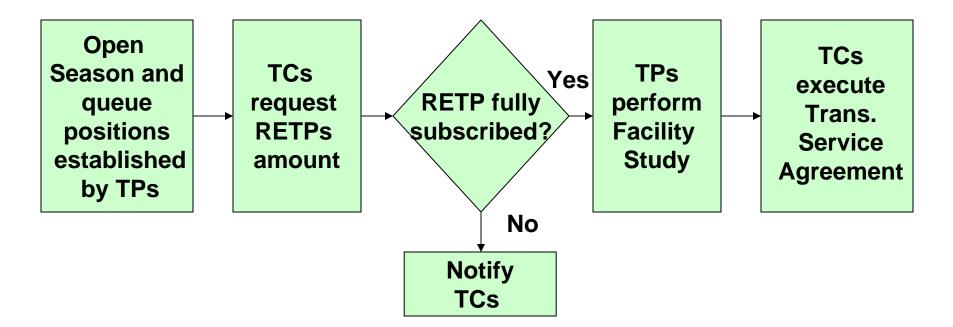
Enhanced Transmission Access Planning Studies Process (Sec 4.2)

- TAG participants propose scenarios
- Scenarios outside of NCTPC footprint: TAG members to submit to SE IRPP directly
- PWG determines most effective way to study and provides study list to OSC
- OSC approves study list
- TAG members select up to five scenarios from approved study list.
- Five studies at no cost
- Studies beyond five will be done, if can be accommodated, at a charge to the requestor

Regional Economic Transmission Paths (Sec 4.2.5)

- RETP is study scenario that would facilitate regional Point-to-Point economic transactions
- RETP could support designation of an external Designated Network Resource
 - RETP study evaluates if Point-to-Point can be provided over Duke and/or PEC networks
 - Network customer needs to ensure delivery from Duke and/or PEC network to the network load
- Cost allocation is Requestor Pays
- If project is built, Requestor gets firm Point-to-Point and the amount they pay is used as a credit against their firm Point-to-Point bill

RETP Open Season Process:



Data to Replicate Planning Studies (Sec 5.3.8 and Sec. 9.4)

- TAG Members may request such data
- Requests are made to Independent Third Party
- Requestor must show that they have:
 - Obtained Duke and PEC Form 715 data
 - Signed the SERC and NCTPC Confidentiality Agreement
 - Completed the NCTPC Data Request form



Other Areas of Change

- Dispute Resolution (Sec 6.1.3)
 - TAG Voting Member has right to seek assistance from NCUC Public Staff to mediate an issue and render non-binding opinion on any disputed decision
 - This is same process as what NCTPC Participants have had in place



Other Areas of Change

Local Planning (Sec 12.)

- Focuses on lower-voltage facilities and delivery of energy to customer locations
- Customer meetings are held as needed
- Local area plans developed by the Transmission Provider are rolled into the planning models used by the Transmission Providers and then into the NCTPC models



Next Steps

Please provide written comments to ITP by Friday - November 23rd

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PEC and Duke to file with FERC on December 7, 20007 as required



Discuss Proposed NCTPC Document Changes

Rich Wodyka Gestalt



NCTPC Process Doc. - Oct. 15, 2007

- Expands the transmission planning process to include analysis of through or out transactions
- Updates the Enhanced Transmission Access Planning Studies Process to match the proposed Attachment K
- Updates the Figure 1- Process Flowchart for the Enhanced Transmission Access Planning Studies Process



TAG Scope Document - Oct. 15, 2007

- Updates TAG responsibilities for more direct involvement in the NCTPC Process
- Updates the TAG Membership section to clarify who can be a TAG Member
- Updates the TAG Voting section to clarify the voting process for the ETAP scenarios
- Establishes a new Data and Information Release Protocol



TAG Scope Document - Nov.13, 2007

- Expands TAG Membership section to now include Participation requirements for becoming a TAG Voting Member
- Clarifies that portions of a TAG meeting may be closed and only available to TAG Voting Member representatives that are permitted to access confidential and CEII information
- Updates the TAG Voting section to match the TAG Voting Member definition
- Updates the Data and Information Release Protocol for the TAG Voting Member access



Update 2007 NCTPC Study & Report

James Manning NCEMC

Update – Major Projects 2007 Collaborative Transmission Plan



Update on Major Projects 2007 Collaborative Transmission Plan

- Presented preliminary list of major projects identified in 2007 NCTPC Study at the September 17th TAG meeting
- Present update to list of major projects based on additional analysis and information at this TAG meeting

Preliminary (11/15/07) – Major Projects in 2007 Plan		
Reliability Project	ТО	Planned I/S Date
Marion-Whiteville 230 kV line	Progress	I/S 6/7/07
Reconductor Lee Sub-Wommack 230 kV South line	Progress	June '08
Durham 500 kV sub	Progress	June '08
Durham-Falls 230 kV line	Progress	June '08
Rockingham-West End 230 kV line	Progress	June '09
Clinton-Lee 230 kV line	Progress	June '10
Richmond 500 kV sub, reactor	Progress	June '10
		December '09

Preliminary (11/15/07) – Major Projects in 2007 Plan (Continued)		
Reliability Project	ТО	Planned I/S Date
Asheville-Enka 230 kV line, Convert 115 kV line; and	Progress	December '10 December '14
Asheville-Enka 115 kV, Build new line		December '10
		December '12
Greenville-Kinston Dupont 230 kV line	Progress	June '11
Henderson-Kerr Dam 115 kV line	Progress	June '11
Rockingham-West End 230 kV East line	Progress	June '11
Harris-RTP 230 kV line	Progress	June '11
Pleasant Garden-Asheboro 230 kV line,	Progress	June '11
replace Asheboro 230 kV xfmrs	&	
	Duke	

Preliminary (11/15/07) – Major Projects in 2007 Plan (Continued)		
Reliability Project	ТО	Planned I/S Date
Rockingham-Lilesville 230 kV line	Progress	June '11
Add 3 rd Wake 500/230 kV xfmr	Progress	June '13
Cape Fear-West End 230 kV West line, Install reactor	Progress	June '16
Replace Antioch 500/230 KV xfmrs	Duke	June '13
Dooley Tie	Duke	Location of fictitious generation drove need for upgrade, not system need
Reconductor Fisher 230 kV lines	Duke	June '16
Reconductor Steelberry 230 kV lines	Duke	June '16 (cost estimate < \$10M)

Update – Resource Supply Option Results

2016 Hypothetical Import Scenarios (RSOs)		
Resource From	Sink	Test Level (MW)
Duke	Progress East	600
Duke	Progress East	1,200
PJM	Progress East	200
SCPSA	Progress East	400
SCEG	Progress East	600
Progress East	Duke	100
PJM	Duke	600
SCEG	Duke	600
SOCO	Duke	600
TVA	Duke	600

2016 Hypothetical Generation Scenarios (RSOs)		
Resource in (County)	Sink	Test Level (MW)
Scotland	Progress East	450
Cumberland	Progress East	450
Wilson	Progress East	450
Johnston	Progress East	450
Robeson	Progress East	600
Guilford	Duke	150
Davidson	Duke	150
Union	Duke	150
Gaston	Duke	150
Rockingham	Duke	800



Resource Supply Option Results Progress East

Hypothetical Imports

- Duke, PJM, SCPSA or SCE&G
 - No new projects were identified within Progress East Control Area to support import resource supply option scenarios studied.



Resource Supply Option Results Progress East

Hypothetical Generation

- Wilson, Cumberland and Johnston County scenarios
 - No new projects needed
- Scotland scenario
 - Problem: Thermal loading on Raeford-Wagram 115 kV line
 - Solution: Install series reactor at Weatherspoon on Wagram 115 kV terminal



Resource Supply Option Results Progress East (continued)

Hypothetical Generation

Robeson scenario

- Problem: Thermal loading on Fayetteville-Fayetteville
 East 230 kV line & Weatherspoon Plant-Fayetteville
 DuPont 115 kV line
- Solution: Construct Weatherspoon-Cumberland 230 kV line and Cumberland-Fayetteville East 230 kV line
- Problem: Thermal loading on Weatherspoon-Raeford 115 kV line
- Solution: Install series reactors on Weatherspoon Plant-Fayetteville DuPont 115 kV line & on Weatherspoon-Raeford 115 kV line



Resource Supply Option Results Duke

No new projects were identified within the Duke area to support the resource supply option scenarios (hypothetical imports and generation) studied.



Generator Interconnection Request Progress

New Richmond CC Generation Confirmed

- Richmond CC 2011 Summer
 - Construct new Richmond-Ft. Bragg Woodruff Street 230 kV line
- > Not part of 2007 NCTPC Study
- > Will be part of the 2008 NCTPC Study

	NCTPC Schedule
Nov 15, '07	TAG Meeting - Update TAG on status of 2007 Study
Dec 13, '07	TAG Meeting - Present 2007 Plan & summary of draft report
Dec 17, '07	Distribute 2007 Plan & draft report to TAG for comment
Dec 31, '07	Comments due from TAG on 2007 Plan & draft report
Jan 16, '08	Distribute final 2007 Plan & report to TAG

2007 Supplemental Study & Report

- NCTPC will perform a study of the Progress West Control Area
- Target date for the completing the study and report is the end of the 1st quarter of 2008



TAG **Open Forum Discussion** Comments or Questions ?