



Eastern Interconnection Planning Collaborative

Transmission Options Task Force Discussion of Broad Facility Types to be Considered in Phase 2

TOTF Meeting

January 10-11, 2012

Looking Ahead to Step 13

13. PAs Identify New Transmission for each Scenario

- a. For each of the Scenarios, PAs will develop “Sets” of transmission modifications for their NEEM regions. [Note: peak and “less than peak” cases will be developed depending on particular scenario needs.]
- b. Objective – identify final sets of high level (230 kV and above) transmission modifications to be considered and ultimately developed into final load flow cases
- c. ...

What are the transmission “sets”?

- Objective is to develop a transmission topology that supports the resources specified for each scenario
- Starting point is the transmission from the Stakeholder Specified Infrastructure
- “Sets” are the groups of transmission lines developed for each NEEM region or group of NEEM regions
- In Step 13 the PAs will rationalize the additions – remove un-needed duplicate lines, “right-size” lines to appropriate voltages/locations, and consider the reconfiguration of existing/new facilities

Out-of-Bounds for the Study

- Specific siting issues – transmission routes or new substation locations
- Technology that is inconsistent with the NEEM run that specified the resources (e.g. long distance superconductors)

Facility Types Discussion

- Should new parallel transmission with voltages matching the existing system be considered?
- When might this approach be applicable?

Facility Types Discussion

- Should EHV overlays be considered?
 - Grid configuration
 - Skeleton configuration
 - Other
- When might this approach be applicable?

Facility Types Discussion

- Should HVDC point-to-point connections be considered?
- When might this approach be applicable?

Facility Types Discussion

- Should EHV collector systems for dispersed resources be considered?
 - Specific to distributed resources
 - Integrated into the nearby EHV system
- When might this approach be applicable?

Facility Types Discussion

- Should incremental upgrades such as reconductoring and rebuilding single to double circuit be considered?
 - EHV versus voltages below 230kV
- When might this approach be applicable?

Facility Types Discussion

- What other types of transmission facilities should the study consider and when would they be applicable?

Questions

