

# **TCWG Northeast Oregon Sub-Area Study Group Meeting**

**December 1, 2009**  
**Northwest Power Pool Offices**

## **1) Welcome and Agenda Changes**

Please sign attendee list and return to Dana Reedy

## **2) Action Items from last NEO Sub-Area Study Group Meeting:**

- Review resources in 13HS/14HW

## **3) Brief update of projects included in NEO Sub-Area Study Group:**

- BPA: West of McNary Reinforcement (WOMR)
- PGE: Cascade Crossing
- IPC: Hemingway-Boardman
- PAC: Walla Walla-McNary
- PG&E: Canada-Northwest-Northern California (w/NEO substation)
- TransCanada: Northern Lights

## **4) Update of project model record submission status**

Project sponsors were asked to send updated power flow models to Philip by Sep. 9.

## **5) Study Methodology**

- West of McNary, West of Slatt, and West of John Day need to be stressed separately
- Base cases: ColumbiaGrid 13HS and 14HW cases for WOMR
- Discuss limiting common mode outages (adjacent circuits, breaker failures)
- Discuss RAS assumptions (total gen trip limits, RAS for N-1, etc.)
- Update from project sponsors on which base cases they plan to use for Phase 2 studies.

## **6) Load and resource assumptions**

Discuss 500 kV system diagram with planned projects and BPA wind generation interconnection requests shown.

Discuss proposed list of generation clusters for loading projects in this study group shown below:

Lower Columbia, West of McNary:

- Hydro: McNary
- Gas: Coyote Springs, HGP, HPP, GEC
- Wind: Jones Canyon, Linden, Dot, McNary – Coyote (planned)

Lower Columbia, West of Slatt (also called “R2” in previous meetings):

- Coal: Boardman-PGE
- Gas: Boardman-PGE (planned)
- Wind: Slatt (planned), Diamond Butte (planned), Sand Piper (planned)

Lower Columbia, West of John Day (also called “R1” in previous meetings):

- Hydro: John Day
- Wind: John Day, Rock Creek, China Hollow (planned, radial to JD)

SE Washington (also called “R3” in previous meetings):

- Hydro: Lower Monumental, Little Goose, Lower Granite, Ice Harbor
- Wind: Central Ferry (planned), Hopkins Ridge, Marengo, Stateline, Walla Walla area (planned)

Upper Columbia and Mid Columbia (Central WA)

- Hydro (UC): Grand Coulee, Chief Jo
- Hydro (MC): Wells, Priest Rapids, Wanapum, Rocky Reach, Rock Island

I-5 Corridor (between Seattle and Portland):

- Coal: Centralia
- Gas: Frederickson, Big Hanaford, Chehalis, Grays Harbor, Mint Farm, Beaver, Port Westward, River Road

Idaho and Wyoming:

- Wyoming wind (from Gateway West)
- Idaho Power hydro and gas plants
- Coal: Jim Bridger

British Columbia:

- Existing Hydro: Mica, Revelstoke, GM Shrum, others.
- Planned new renewables (delivered to Selkirk through BCTC system)

Alberta:

- Existing and planned thermal plants
- Planned wind in SE Alberta

San Francisco Bay Area:

- Bay Area gas plants

## 7) **Project and critical path study matrices**

- Discuss draft study matrix, which includes bi-directional flows on selected projects
- WOMR is included in based assumptions (based on agreement from last NEO meeting)
- Compared with other sub groups, this matrix has a much larger number of possible combinations are shown. The draft list contains 65, and this does not include every possible combination
- Discuss methods for thinning the list further, such as identifying if there are projects without a significant interaction
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## 8) **Action items for the next meeting**

## 9) **Adjourn**

**Transmission Coordination Work Group Meeting - NEO**  
**December 1, 2009 - Portland, OR**

Attendance List

	Name	Company	Phone Number	Email
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15	Ravi Aggarwal	BPA	503 230 4105	rkaggarwal@bpa.gov
16	Rebecca B. - call			
17	Dilip M. - call			
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