

**Transmission Coordination Work Group Meeting – W of  
Cascades Sub area  
July 15, 2009 Portland OR**

**I) Deliverables for the sub area work group include:**

- 1) Recommendations of a basecase (benchmark)- to use for studies
- 2) Loads & Resources Assumptions
- 3) Matrix Critical Paths-development
- 4) Schedule Milestone- to be driven by the needs of the project sponsors

**II) TCWG Projects Included in sub area**

- PGE - Cascade Crossing
- BPA - WOMR,
- BPA – I-5 Reinforcements
- Sea Breeze - West Coast Cable

**III) Two generation scenarios were discussed by the group.**

- 1) *East-West* to address Cascade Crossing and WOMR needs, ( winter limited)
- 2) *North-South* to address I-5 reinforcement needs & West Coast cable (summer limited)

Group determined the need both summer and winter cases, for each dispatch. Discussed using cases developed from approved WECC cases by Columbia Grid in their Assessment Studies.

**IV) Loads and Resources Assumptions**

2015 priority generation being added issue.

WOM WOS paths should be included in study assumptions

Hydro levels to be determined

Generation Projects

Previously developed in TCWG-R1/R2/R3 = 6,000 MW wind

Existing resources built or under construction or are in LGIP queue described as in the Phil Park Paper on use of fictitious generators

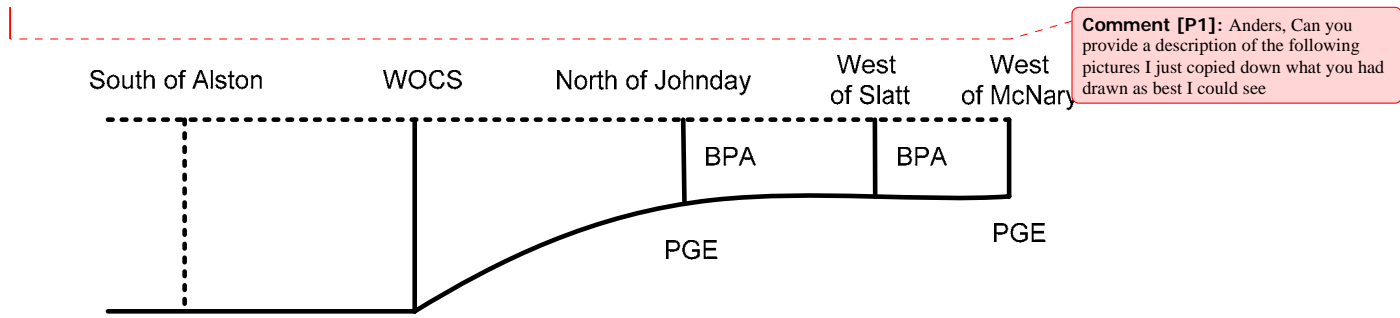
“Dramatic effect on the need date for projects if load is scaled or not.”

Other key assumptions

Project not in TCWG but currently in WECC Phase 2 to be determined if need to be addressed by this group.

**V) Matrix Critical Paths**

Matrix of Critical Paths								
Case	Description	WOCS	S of A	COI	N of JD	WOM	WOS	NW-CAN
	East to West Transfers							
0	Benchmark loaded case							
1	WOMR added							
2	Cascade Crossing added							
3	All TCWG Projects added							
	North to South Transfers							
4	Benchmark loaded case							
5	WOMR added							
6	Cascade Crossing added							
7	All TCWG Projects added							



**VI) Additional Project Updates**

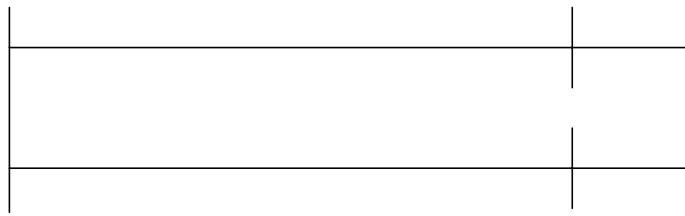
- WOMR Updates On line date before Cascade Crossing  
Name Changes  
Station Z = Knight  
BPA Planners James Randal, and Berhanu Tesema
- I-5 Reinforcement Project Updates  
Station X = Castle Rock

Planned system upgrade projects include:

- John Day Marion / Buckley to Marion
- Big Eddy to Ostrander
- 230kV Re-sag in Portland area
- Adding 2-Breakers at Pearl to eliminate contingency
- McLoughlin bushing replacement for the transformer rating

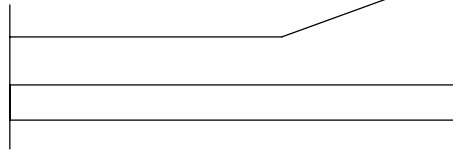
Ostrander

Wautoma

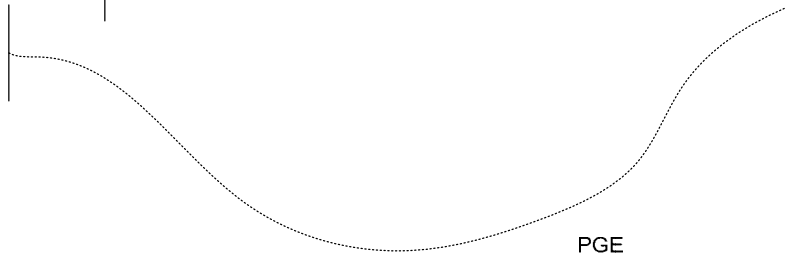


Big Eddy

Marion



Bethel



PGE

**Comment [P2]:** Anders,  
Same comment as above for these  
pictures

## **VII) Study Methodology points made**

- 1) Path 3 - Interaction to the N-S summer S-N with critical to study
- 2) Boardman 2 Hemingway is a potential source
- 3) Is the capability of WOCS impacted by the addition of these projects
- 4) Discussed studying all parallel projects to determine a new path rating or an individual project rating (to be determined by Project Sponsor).
- 5) WOCS-reconfirm 7000 MW rating TTC as a Base prior to WOMR  
WECC bulletin board cases 2013 hs1, hw2014 scaled to 2015 would be good starting points Columbia Grid have used these cases in the system assessments  
Columbia Grid/Documents Type Base Case zip file hw114, zip file hs213
- 6) Scale Load & Generation / Reduce Generation in load area.
- 7) Sensitivity to Northern Lights Project
- 8) Add Cascade Crossing then modify
  - 1) Increase load to a 1 in 5 projection
  - 2) Redispatch generation for high east-west transfers for first set of cases
  - 3) Redispatch generation for high North to South transfers for second set of cases
- 9) Identify intermediate study points to establish trend lines
- 10) Base cases for Columbia Grid or WECC (send out link): Columbia Grid cases available on CG site. Changes made to the case need to be established with Columbia Grid

## **VIII) Action Items**

- 1) BPA – Identify common mode contingencies (Kyle) ---- 3 weeks
- 2) Clearly identify fixes – remove which contingencies (Anders/Kyle)
- 3) “new rating” Big Eddy - Parkdale & Parkdale – Troutdale (Anders/Kyle)
- 4) (Gordon will connect with Philip for Columbia Grid cases)
- 5) Matrix of Critical Paths (Philip)
- 6) Common contingencies created by SO Cross (Philip)
- 7) PGE to chair next month

*Attendance:*

<b>Name</b>	<b>Company</b>	<b>Phone Number</b>	<b>E-mail</b>	<b>Present or On the Phone</b>
Dana Reedy	NWPP Corp	503-445-1082	<a href="mailto:dana@nwpp.org">dana@nwpp.org</a>	Present
Kyle Kohne	BPA	360-619-6839	<a href="mailto:krkohne@bpa.gov">krkohne@bpa.gov</a>	Present
Anders Johnson	BPA	360-619-6842	<a href="mailto:aliphnson@bpa.gov">aliphnson@bpa.gov</a>	Present
Paul Shockley	ABB-Sea Breeze	818-632-9823	<a href="mailto:paul.r.shockley@us.abb.com">paul.r.shockley@us.abb.com</a>	Present
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Rich Bayless	Northern Tier		<a href="mailto:rbaylesscps@hevanet.com">rbaylesscps@hevanet.com</a>	Present
Hue Nguyen				On the Phone

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