



### WOCN Recommendations (updated 12/15/10)

Tracking #	Recommendation	Parking Lot Issues/Customer Comments	POC	Target Completion Date	Comments
1a	Conduct or coordinate a review of TLMAPPS entries to identify or verify if other clearance issues are outstanding.		Batchelor	10/1/2010 Done	Completed review of 70,000 comments received in TLMAPPS; controls in place to flag action items
1b	Establish procedures that provide on-going timely verification of significant (safety and reliability compliance) TLMAPPS inputs; Requires IT support		Batchelor	7/1/2011	
1c	Develop a methodology to analyze LiDAR information to identify clearance violations. The methodology should include resource needs, risks, benefits, costs, etc	A team has been assembled and a draft document is in progress. We meet monthly and the document is about 50% written. We plan to present a preliminary draft to Larry B. next month.	Staats	3/1/2011	Work is continuing on the draft document. Scope had to be revised as a result of recent NERC alert. Draft is being revised and team will meet to discuss mid - December. Still need to schedule discussion with Larry B. after the revisions and scope are settled. We hope to meet with Larry in mid - December or early January.

2a.i	Review current study processes and methodology for WOCN Path		Elizeh	10/1/2010 Done	TOT ran studies looking at all major 500kv facilities in the Puget Sound area and determined which ones were important outages for WOCN. These outages are now listed in DSO 322. 10/27/10
2a.ii	Review current study processes and methodology for N-2 contingencies (as per the WECC regional difference) of remaining identified internal paths	Customers would like to have access to nomograms used to calculate SOL study outcomes. A lot of conversation around this point. Customers believe access to the same nomograms BPA uses would simplify their planning work.	Elizeh	10/1/2011	TOT has completed the DSO studies for the West of Cascades South (WOCS) flowgate including an assessment of the impact of 500kV line outages between Allston and Marion on the WOCS SOL. This study has determined that no new outages need to be included for WOCS for the winter season. A similar assessment will be made when the spring/summer DSO studies are run in the early spring. TOT is also working to develop a screening procedure in order to identify 230kV and above facility outages which might impact the SOL's of our critical paths. The facilities identified through this screening process would then be assessed using our normal study methods to make a final determination if the outage does have a significant impact on the relevant path SOL.
3a.i	Plan developed to accelerate study tool improvement project	Have we backed into a potential tool for increasing system load capacity without building new Tx facilities? Increased bandwidth?	Gronquist	12/1/2010 Done	Report completed on 11/30/2010. TOT manager has forwarded the executive summary to the TO manager for review.

3a.ii	Study tool improvement project; R & D funding required. Time horizon for full implementation is expected to be 4-5 years.		Gronquist	Phased dates defined by plan. Full implementation will take several years	Report completed on 11/30/2010. Workplan submitted to TOS and TO managers. Meetings to be scheduled to discuss workplan implementation.
4a.i	Review internal procedures (e.g., DSO148) and revise as appropriate, to ensure timely communication to appropriate internal organizations of reduced SOLs		Ellison	8/15/2010 Done	DSO-148 process reviewed with TOT, TOD, and TOV to assure compliance. Fall Dispatch training session reviewed process with all MCC and DCC Dispatch personnel. Completed 10/26/2010 last DTF session on this process completed. 10/27/10
4a.ii	Provide refresher training for implementation of the procedures.		Ellison	11/30/2010 Done	See above
4b.i	Define threshold criteria to identify at what point urgent and emergency outages with impacts to SOLs are communicated externally	Constraint page can show multiple lines with different SOLs. This requires users to cross check against the 14-day hourly OTC path limit page.	Fitzsimmons	2/1/2011	Completion date change approved by Cathy Ehli on 10/28/2010
4b.ii	Develop protocols and procedures to timely communicate such impacts to appropriate staff and management		Fitzsimmons	2/1/2011	Completion date change approved by Cathy Ehli on 10/28/2010

4b.iii	Provide training to staff and management for implementation of the procedures.		Fitzsimmons	11/1/2010	Date for training completion will be moved out to 3/1/2011 due to 4b.i & 4b.ii completion dates
5a.i	Establish communication protocols that clearly communicate the urgency to return a line to service when an outage is known to have an extraordinary impact on the market		Ellison	8/1/2010 Done	Communication protocols memo signed and distributed by TF/TOD/TOV
5a.ii	Provide training on communication protocols.		Ellison	9/1/2010 Done	See above
6a.i	Revisit and revalidate procedures for implementing Stop Hourly Sales		Holden-Baker	8/1/2010 Done	Desk Procedure rewritten. Complete 9/1/10.
6a.ii	Provide training to Transmission Schedulers, Account Executives, and Transmission Dispatchers.		Holden-Baker	9/1/2010 Done	Dispatch & RT Scheduling Leads reviewed & agreed on updated procedures 8/13/10

6b.i	Establish protocols and procedures to assure internal consistency when posting information related to Stop Sales		Holden-Baker	8/1/2010 Done	Dispatch & RT Scheduling Leads reviewed & agreed on updated procedures 8/13/10
6b.ii	Provide training on protocols internally.		Holden-Baker	8/1/2010 Done	Dispatch & RT Scheduling Leads reviewed & agreed on updated procedures 8/13/10
6c	Provide customer training on the Stop Sales tool, including features of the tool, and where to look for postings when the tool is implemented		Holden-Baker	9/1/2010 Done	Customer meeting 8/26/10
7a	Establish a separate listing for all missing BPA monitored flowgate/path on the Outage and Interruption Page under Known Constraints.		Bausch	10/1/2010	12/10/2010 Still on track for 1/15/2011 testing On Hold due to delivery from OATI Tool development this recommendation. Should be Ready for Testing on 1/15/2011. <b>POC change approved by Cathy Ehli on 10/28/2010</b>
7b	Complete cost benefit analysis for improved access to outage information.		Bausch	7/1/2011	12/10/2010 Still on track for 1/15/2011 testing Should be Ready for Testing on 1/15/2011. <b>POC change approved by Cathy Ehli on 10/28/2010</b>

7c.i	Review procedures and protocols to determine consistency of posted Outage information	Even with 3 tools tracking O & I, it's still a tough job to understand the information and updates BPA posts. A) 45 Day Outage Plan B) Outage Report (O & I Plan) C) Green Sheet The time gap between #A (45 days out), and #B (2 weeks out) leaves customers hanging during this "quiet period".	Bausch	10/1/2010 Done	12/10/2010 Still on track for 1/15/2011 testing Provided requirements to vendor that provides improved access to outage information. <b>POC change approved by Cathy Ehli on 10/28/2010</b>
7c.ii	Provide training for locating outage information to internal and external parties	Reminder for BPA to evaluate how to make outage & interruption (O & I) notices clearer and more user friendly. Lots of steps required and 3 existing tools don't crosswalk easily, if at all.	Holden-Baker	10/1/2010 Done	Updating Reliability Limits & Outage Information bulletin. Expect to post by 11/1/10. Updated Bulletin posted externally on November 8, 2010.
8a	Establish Hourly ATC Methodology. Current effective date for NERC ATC standards is 1/1/11	Policy discussion about curtailments being allocated based on energy profile. Impacts of carrying reserves from a given generation resource. What are the system reliability impacts? Does this policy de-facto establish 2 categories of firm contingent Tx tags? policy impacts. Part of the challenge is that protocols drive decisions in real time, in situations that have business / revenue /	Gillman	4/1/2011	
8b	Engage Customers in a discussion of how to resolve the conflict between BPA's obligation to plan and maintain the transmission system for long-term commitments and the customers' use of the transmission system for short term and hourly transactions	BPA needs to provide feedback & clarity on long-term vs. short-term sales methodology. Customers have asked for opportunity to provide input	Gilman	1/1/2011	

9a	Determine whether practice of permitting the netting of redirect requests is allowable under new NERC ATC standards. If allowable, perform analysis, including cost/benefit, to determine the best approach to allow the netting of redirect requests when the stop sales tools are used. Current effective date for NERC ATC standards is 1/1/11.	Do BPA's congestion management tools & protocols set up a scenario in which non-firm transactions are allowed, while firm transactions are curtailed or denied? May be tied to NERC ATC methodology. Customers request that BPA follow up to map out these scenarios.	Gillman	4/1/2011	
10a	Decide timing for updates to NERC ATC System Model (e.g., hourly); review and determine if more granularity is required for processes and procedures for the NERC ATC methodology to implement curtailments and redispatch. Current effective date for NERC ATC standards is 1/1/11	Impact (unintended consequences) of using the curtailment tool to limit the number of transactions. Are we cutting tomatoes with a hammer? More energy around this point than almost everything else combined. Collateral consequence is that customer-requested redirects having no net impact on the SOL are virtually automatically denied.	Gillman	4/1/2011	
10b	Decide appropriate accounting for FCRPS supplied AGC, losses, and other similar uses in the NERC ATC methodology		Gillman	1/1/2011 4/1/11	

10c	Review and modify, as appropriate, internal processes and procedures for Discretionary Redispatch		Fitzsimmons	1/1/2011	
11a	Identify the impact of NT transactions on congested flowgates; establish protocols and procedures (NT customers to tag their firm transactions as 7-FN) to redispatch Designated Network Resources (both Federal and non-Federal) for NT service; and develop automation to implement NT redispatch to Federal and non-Federal Designated Network resources contemporaneous with Firm Point to Point curtailments.		Kitali	12/31/2010	The requirement for the iCRS curtailment tool upgrade are complete for the base program and the updated tool was released to staging environment week of November 1 <sup>st</sup> , 2010. Staff will be testing the new requirements and reporting any fixes through December 10, 2010. The new program will be released to the production environment on December 15 <sup>th</sup> 2010. Training for dispatchers and Hydro Operation (Scott Winner) will begin on December 8 <sup>th</sup> , 2010, a week prior to the production release. <b>POC Change approved by Randi Thomas on 12/13/10.</b>
11b	Identify untagged uses of the FCRPS that affect network flowgates, and define and implement a proxy in iCRS for untagged NT transactions from the FCRPS.		Kitali	12/31/2010	The untagged uses have been included in requirement for updated iCRS curtailment tool. The base system programming is complete and the updated tool was released to staging environment week of November 1 <sup>st</sup> , 2010. Staff will be testing the new requirements and reporting any fixes through December 10, 2010. The new program will be released to the production environment on December 15 <sup>th</sup> 2010. Training for dispatchers and Hydro Operation (Scott Winner) will begin on December 8 <sup>th</sup> , 2010, a week prior to the production release. <b>POC Change approved by Randi Thomas on 12/13/10.</b>

11c	Provide customer training on iCRS curtailment calculator, including how dynamic schedules are curtailed.	Calculator tools on web site aren't user friendly. Good translation tables would help. Short-term calculations require a lot of clicking & scrolling. Long and short-term calculators are used extensively; both are awkward and cumbersome.	Simons	12/31/2010 Done	Completed on August 26, 2010
Secondary Area of Concern	Review and make recommendations on the appropriate level of emergency inventory		Ware	3/1/2011 Done	Per Melissa McMullan, 11/15/10 is date Technical Services is deadline for their review to be retruned.

Revision History				
Date	Version		Description	Approved by
10/4/2010	1.0		Final	
10/7/2010	1.1		Added Parking lot issues	
10/27/2010	1.2		Comments	
10/29/2010	1.3		4b.i-4b.iii Date revision	
11/2/2010	1.4		Added November Sheet	
11/19/2010	1.5		Added December Sheet	
12/13/2010	1.6		POC change 11a-11b	