

Description of Meeting:	NTTG Planning Committee
Meeting Date:	October 31, 2011
Meeting Minutes Prepared By:	Pam Greensky
Approved for Posting:	December 7, 2011

Attendee List:

- Dave Angell, Vice Chair – IPCO (Class 1)
- John Chatburn – Idaho Office of Energy Resources (Class 3)
- Eric Egge – Black Hills Power (Class 1)
- Marshall Empey – UAMPS (Class 2)
- Darrell Gerrard – PacifiCorp (Class 1)
- Pam Greensky - NTTG
- Sharon Helms – NTTG
- Rhett Hurless – Grasslands (Class 1)
- Don Johnson – PGE (Class 1)
- John Leland, Chair- Northwestern (Class 1)
- Jacob Lucas - FERC
- Bill Pascoe – TransWest Express, LLC
- Rikin Shah – Northwestern Energy
- Muneer Sheikh – FERC
- Jim Tucker – Deseret (Class 1)
- Scott Waples – Avista (Class 1)
- Dan Wheeler – Gaelectric, LLC (Class 2)

1. Agenda:

- Roll Call, Agenda review
- Approval of June 1, 2011 and September 7, 2011 meeting notes
- 2010-2011 Biennial Transmission Plan
 - Review process for submitting comments
 - Review comments received
 - Recommended approach on incorporating changes and supporting justification
 - Process for Planning Committee approval prior to submitting to NTTG Steering in November for final approval
- FERC Order 1000
- Round table/Other business

2. Discussions & Decisions:

Discussion: Roll Call, Agenda Review

- There were no additions to the agenda.

Decision: Approval of June 1, 2011 and September 7, 2011 meeting notes

- It was noted that quorum requirements for voting had been satisfied. Hearing no objections, the minutes were approved as submitted for posting on the NTTG website.

Discussion: 2010-2011 Biennial Transmission Plan

- Review process for submitting comments
 - The report was posted for comments. Two comments were received.
- Review Comments received
 - Dave Angell will review the comments with the committee.
 - PacifiCorp – BJ Moghadam:
 - **Page i** Suggest "Chairmen's Message" since multiple chairmen.
 - **Page i** Report says more than 3 million "customers" later, which is likely significantly more than 3 million people. Suggest revising to say "customers" here too.

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- **Page 1** Mention of Order 1000 is a conspicuous absence. Perhaps just a simple reference is appropriate. Something like:
 - FERC Order 1000, issued in July 2011, will have further implications for Northern Tier's planning and cost allocation practices. NTTG's 2012-2013 Biennial Report will reflect these modified practices in accordance with Order 1000.
- These changes were all accepted and put in place.
- TransWest Express, LLC – Bill Pascoe
 - Bill Pascoe commented that he looked at how they were addressed on the spreadsheet and how they were addressed on the report. On some he would like to look at alternate ways to address them.
 - **Page 48: Page 49**, in the PDF it is actually pages 61 and 62. The comment has to do with the diagram not exactly matching the study work itself, the issue is that the diagram is for multiple study hours and some require more transmission improvements than others. What has been added is a new diagram to show a double circuit rather than a single circuit.
 - Bill comments that there are really two issues here; 1. The issue of what to show on the diagram and 2. some of the lines on the map do not indicate whether it is representing a double circuit. Need to double check that the diagram and the text mesh.
 - Dave agreed on the call to check the report to ensure single\double circuit lines are represented correctly.
 - **Page 50:** Don't understand why an additional 500 kV AC circuit is needed between Anticline and Populus in the DC expansion case. If this case has 6000 MW of added Wyoming generation and 6000 MW of DC capacity, there should be no incremental impacts on the AC system.
 - The 500 AC was inserted for the peak hour under the AC solution and was retained during the DC solution and is most likely not required for that.
 - Bill suggested striking the sentence or adding a footnote.
 - Per Dave, a footnote will be added.
 - **Page 50:** Don't understand why COI should be at 105% in the DC expansion case. If this case has 6000 MW of added Wyoming generation and 6000 MW of DC capacity, there should be no incremental impacts on COI.
 - Adjustment of the flow on the PDCI will reduce the overload on COI and still remain within the PDCI ratings, ebb 10/26/11.
 - Dave suggested added a footnote to satisfy this comment and Bill agreed.
 - **Page 50:** Please add a statement indicating that a combination of AC and DC lines would also provide a viable solution.
 - "Such a case was not studied, however, a statement of this is conclusion number 4. The development of large amounts of Montana or Wyoming wind generation, as studied in the Scenario Cases, will exceed the capability of the NTTG transmission system and its Foundation List Projects. Therefore, additional AC and/or DC transmission, such as the projects listed in Appendix 3, from the NTTG system to forecasted RPS driven load is required under these resource expansion scenarios."
 - Bill would like a sentence added that states this was not tested.
 - Dave agreed and will add a statement.
 - **Page 68:** Don't understand why an additional 500 kV AC circuit is needed between Anticline and Populus in the DC expansion case. If this case has

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6000 MW of added Montana/Wyoming generation and 6000 MW of DC capacity, there should be no incremental impacts on the AC system. Is this additional 500 kV AC circuit between Anticline and Populus needed in the AC expansion case? If so, please add to Figure 6-13.

- Bill suggests that this be deleted.
- Dave agrees and will delete.
- **Page 68:** Don't understand why COI should be at 105% in the DC expansion case. If this case has 6000 MW of added Montana/Wyoming generation and 6000 MW of DC capacity, there should be no incremental impacts on COI.
 - Dave suggests adding a footnote.
 - Bill agrees, Dave will add footnote.
- **Page 68:** Please add a statement indicating that a combination of AC and DC lines would also provide a viable solution.
 - Dave suggests another footnote.
 - Bill agrees, Dave will add footnote.
- **Page 89:** Why was no DC expansion alternative analyzed for this scenario? Even without analysis it should be obvious based on the AC expansion analysis that a 3000 MW DC line from Townsend to Harry Allen would provide a satisfactory solution. Please add language and a map to the report discussing the DC alternative.
 - Dave suggests amending this statement by adding a sentence.
 - Dave agrees and will make the correction.
- **Page 104:** The transmission additions on Figure 6-28 do not match the description on page 105. The additional 500 kV AC circuit from Aeolus to Crystal is missing from Figure 6-28. The additional 500 kV AC circuit from Midpoint to Robinson may be missing from the description on page 105.
 - The figure was correct but the description was not. Dave did make these corrections.
 - Bill suggests that Dave goes back and verifies that his information is all correct.
- **Page 104:** Why was no DC expansion alternative analyzed for this scenario? Even without analysis it should be obvious based on the AC expansion analysis that a 3000 MW DC line from Aeolus to Crystal would provide a satisfactory solution. Please add language and a map to the report discussing the DC alternative.
 - Dave suggests this is another instance requiring a footnote.
 - Bill agrees, Dave will add footnote.
- Dave Angell suggests getting a vote approving the report and Bill Pascoe's suggested changes.
- The motion is to approve the NTTG 2010-2011 Biennial Transmission Plan Report, subject to revisions as discussed in the 10-31-2011 Planning Committee meeting with Bill Pascoe, providing Bill the opportunity to review additions requested.
- Without objections, this motion has been approved.
- Dave Angell will have the report to Bill Pascoe by 11-07-2011 for review. Bill will review and reply by 11-09-2011.

Discussion: FERC Order 1000

- John Leland will provide an update on the FERC order 1000.

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- NTTG has had internal meetings to talk about FERC Order 1000 and how to proceed. NTTG has formed some workgroups to look at planning and cost allocation.
- Processes are being discussed for stakeholder involvement. Everyone feels that we must have good stakeholder involvement. Each workgroup will provide summaries from the meetings that will be posted on the NTTG website for anyone interested to look at the summaries and provide comments back for consideration. This is one method of stakeholder input.
- There will be a face to face stakeholder meeting in February. December 8th, there will be a stakeholder conference call.
- Around July NTTG will have to have all information available for the legal group for filing in October.

Discussion: Round table/other business – Sharon Helms

- None.

Next Meeting: Next Meeting: The next Northern Tier Planning Committee meeting is scheduled for Wednesday, December 7, 2011 at 1:00 PM (Pacific)

- Voice Conference Mtg. **503-813-5600** (toll free #800-503-3360)
- Meeting ID **688455** and password **123456**

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