

Description of Meeting:	NTTG Planning Committee
Meeting Date:	October 17, 2018
Meeting Notes Prepared By:	Amy Wachsnicht
Approved for Posting:	November 16, 2018

1. Agenda:

- a. Establish Quorum and Agenda Review
- b. Approve September 19, 2018 NTTG Planning Committee Meeting Notes
- c. Technical Workgroup Reliability Analysis Update
- d. Proposed Revisions to the approved 2018-2019 NTTG Study Plan
- e. **Approval Item:**
 - i. **RESOLVED:** That the Planning Committee recommends submitting the amended NTTG Study Plan to Steering for approval at the December 2018 Steering meeting
- f. Round Table/Other business

2. Discussions & Decisions:

Discussion: Establish Quorum and Agenda Review

- Following roll call, it was noted quorum requirements were met in Class 1 and Class 3 with no members present in Class 2. Given the fact that quorum was met in Class 1 and one other Class, the Planning Committee could move forward with the two approval items listed on the agenda.

Decision: Approval of September 19, 2018 NTTG Planning Committee Meeting Notes

- With Craig Quist motioning and a second by Bob Decker, the September 19, 2018 NTTG Planning Committee meeting notes were **approved** for posting.

Discussion: Technical Workgroup Reliability Analysis Update

- Prior to walking through the reliability analysis update, Ron Schellberg reviewed the [stressed conditions](#) the NTTG Technical Workgroup (TWG) identified for analysis. He indicated the list had not changed since the last Planning Committee meeting and reminded members Case D "High west bound flows on Idaho-Northwest" had been dropped.
- Ron Schellberg also reviewed the [TWG case terminology](#) for the null case, prior Regional Transmission Plan (pRTP) and the Initial Regional Transmission Plan (iRTP) as well as the associated facilities included in each case.
- Since the last Planning Committee meeting, the Change Case Matrix was updated. The first change was an additional three change cases (CC); CC31, CC32 and CC33, which are specifically looking at the configurations of the Gateway West Project. The second change included running analysis of Case I on only CC14, CC21, CC23 and CC24.
- Heat maps are being used to visualize where limit exceedances are occurring. The TWG is taking the sum of the weighted values (Overloads are weighted as most severe and Low Voltages are more severe than High Voltages), then translating the zones of the occurrence into a Latitude and Longitude which place the results into a graphical display.
 - A legend was added was added for the color variances in the maps.
- At this time, the results of the reliability analysis are subject to change as the cases are still subject to additional review prior to inclusion in the Draft Regional Transmission Plan (DRTP).
- Boardman to Hemingway (B2H) Project Analysis:

- The analysis of the null case version with Case C (High eastbound flows on Idaho-Northwest), Case F (High Wyoming wind) & Case G (High Wyoming wind) resulted in several exceedances in the NTTG footprint.
 - When CC1 (which include B2H) was added to each of the three cases, there were improvements in the west; however, B2H did not solve the other outstanding issues in the southeast.
 - In conclusion, the TWG recommended including B2H as one of the potential draft plans that would be subject to metric analysis.
- Gateway West and Gateway South Project Analysis
 - Case E and Case F (High Wyoming wind) and Case I (High flows west and south out of Wyoming) showed significant unsolved contingencies as well as a number of overloads and high voltage issues.
 - To resolve these issues, both Gateway West and Gateway South are required as neither are sufficient by itself.
 - The TWG's recommendation is that both Gateway West and Gateway South be included in the draft plans, subject to metrics analysis.
- Running analysis on the new CC31 and CC32 without the Populus to Hemingway segment showed violations. When the segment was added back in those violations were resolved.
- Case G (High Borah West) had a net export of 944 MW with 3,236 MW out of Borah West, which is above the existing 557 rating. To demonstrate the high Borah West condition was not a result of exporting power, the TWG developed a modified Case G where the Klamath Falls and Port Westward gas units were taken off line. With this change, the net change was around 1,000 MW and the net import dropped to around zero.
 - In comparing the original Case G and the modified Case G, both showed almost identical performance issues without Populus to Hemingway.
- The pRTP configuration was added to Case A, Case B and Case C, and showed that the configuration solved most of the violations.
- In comparing the [iRTP and pRTP](#), both are functionally equivalent and the TWG recommended including both, subject to the metrics analysis.
- As discussed during the last Planning Committee meeting, the Interregional Projects do not materially displace the non-committed projects in NTTG's iRTP or pRTP.
- Next steps are for the TWG to run metrics analysis on the iRTP and pRTP. The difference between the two plans are the three Gateway West segments (Populus-Borah, Cedar Hill-Midpoint and Midpoint-Hemingway).
 - Should a third plan be identified, metrics analysis will be run on that plan as well.
- With regards to the metrics analysis, this should be completed by the end of October. Unless there are big enough changes in reserves or losses, most likely the main driver will be the capital costs.

Discussion: Proposed Revisions to the approved 2018-2019 NTTG Study Plan

- In reviewing the prior cycle's Regional Transmission Plan, the TWG discovered the approved 2018-2019 NTTG Study Plan did not incorporate the correct language regarding the TWG's recommendation to use production cost software for the loss metric calculation in the current planning cycle. Rather the current approved study plan used the previous cycle's language.
 - Ron Schellberg further explained that during the last cycle the TWG completed an evaluation of the loss metric analysis using both power flow and production cost simulation, and based on the results, the TWG recommended that for future cycles, only the PCM calculation method should be used.
 - The current approved [Study Plan's language](#) was updated to reflect the energy loss metric will be evaluated using production cost simulation.
- The Wyoming wind production level in [Attachment 2](#) was updated from 2,675 MW to 2,860 MW based on stakeholder comments received and NTTG's response. The duration curve was also updated reflecting the 2,860 MW.



Decision: Approval Item

- **RESLOVED:** That the Planning Committee recommends submitting the amended NTTG Study Plan to Steering for approval at the December 2018 Steering meeting.
- With Craig Quist motioning and a second by Jared Ellsworth, the above resolution was **approved** by Class 1 and Class 3.

Discussion: Round Table/Other Business

- Sharon Helms reminded members the Metrics Workgroup has started their work and will have it completed by the end of October. Those results and a first version of the draft Regional Transmission Plan will be presented at the November 14th Planning committee Meeting.
- The Draft Regional Transmission Plan will be posted by December 31st for stakeholder review and comment.
- The next NTTG Quarterly Stakeholder meeting will be held on December 13th in Salt Lake City, UT at the Homewood Suites.
- The December 12th NTTG Planning Committee meeting has been cancelled.

3. Assignments:

Item #	Assignment	Owner	Target Date	Status
1.				
2.				
3.				
4.				

Next Meeting: The next Northern Tier Planning Committee Meeting is scheduled for November 14th at 1PM Pacific.

- Dial: **(626) 425-3121**
- Access Code: **432-608-245**



Attendees:

NTTG Planning Committee Member Representatives

Membership Class 1		
Ian Beil, Portland General	Tahir Naeem, MATL (Proxy)	Tracy Rolstad, Avista
Jared Ellsworth, Vice Chair, Idaho Power	Nathan Powell, Deseret	Bob Smith, TransCanyon
Bill Hosie, TransCanada	Craig Quist, PacifiCorp	Curt Winterfeld, Citizens Energy

Membership Class 2		
Marshall Empey, UAMPS	Rhett Hurless, Absaroka	

Membership Class 3		
Bob Decker, MT PSC	Steven Goodson, ID PUC	Katie Pegan, ID OEMR (Proxy)

Other NTTG Members & Guests

Kathleen Fraser, Energy Strategies	Josh Laurandean, NorthWestern	Ron Schellberg, NTTG
Sharon Helms, NTTG	John Leland, NTTG	Amy Wachsnicht, NTTG
Fred Heutte, NWECC	Kishore Patel, PacifiCorp	