

<b>Description of Meeting:</b>	<b>NTTG Planning Committee</b>
<b>Meeting Date:</b>	<b>August 15, 2018</b>
<b>Meeting Notes Prepared By:</b>	<b>Amy Wachsnicht</b>
<b>Approved for Posting:</b>	<b>September 19, 2018</b>

## 1. Agenda:

- a. Approve June 27, 2018 NTTG Planning Committee Meeting Notes
- b. NTTG 2018-2019 Draft System Conditions to Study
- c. NTTG 2018-2019 NTTG Draft Change Case Table
- d. Stakeholder Comment Window
- e. Round Table/Other Business

## 2. Discussions & Decisions:

### Decision: Approve June 27, 2018 NTTG Planning Committee Meeting Notes

- With a motion by Bob Smith and seconded by John Chatburn, the June 27, 2018 NTTG Planning Committee Meeting notes were **unanimously approved** for posting.

### Discussion: NTTG 2018-2019 Draft System Conditions to Study

- At the end of June, WECC published the production cost model (PCM) data set from the 2028 ADS case. NTTG's Technical Workgroup (TWG) reviewed the PCM data set and made several modifications.
  - Boardman to Hemingway was added as in-service.
  - The solar and wind resources were updated to match NTTG's Quarter 1 data submittals.
  - The Dave Johnson, North Valmy, and Naughton Coal units were retired and the Gas unit at Naughton was not modeled.
  - In the PCM data set, the Antelope Project was modeled as one unit, which is actually made up of 10 smaller plants. Modifications were made to the outage rate so that it is more reflective of the correct configuration. These changes are being tracked and will be added to an updated ADS version.
    - Marshall Empey requested to review the inputs into the PCM. He also indicated that UAMPS would be submitting a formal interconnection request.
      - Jamie Austin indicated that Antelope Nuclear is currently modeled as a single unit and that WECC – PDWG is working on improving its representation by modeling multiple units to eliminate zero dispatch associated with forced outages and-or maintenance. Jamie promised that she would follow up with Marshall for his review of proposed changes.
  - The effect of negative prices in California was causing the hydro in NTTG to shut down. The ADS case included a negative pricing of -\$25 in California and as a result the TWG added an additional -\$50 to the hydro outside California.
  - In the 2028 ADS Version 1.0 Case, the Dave Johnson, Naughton and North Valmy units were showing as active. To see how the retirements of these coal plants would affect the coal price assumptions, sensitivities were ran with and without the retirements. The retirements resulted in an increase capacity at the remaining coal plants. There was also a pricing tradeoff between the coal and gas units.
    - Several factors could affect coal pricing such as, hydro conditions, load patterns and coal contracts.
    - The NTTG case reduced the price of coal to 70% and 50% across all coal plants in the data set. NTTG's TWG reviewed and discussed the sensitivities

and the effect of coal pricing at length and came to the agreement to model the -coal prices at 50%.

- Clarification was asked on the decision to model the reduction in the price of coal as this could suggest the coal prices are being adjusted to make the reserves in 2028 look consistent with the historical 2018 reserves.
  - It was explained that reducing the price to 50% aligned with actual historical capacity factor data. For consistency in assumptions, the coal price was discounted for the entire western interconnection, not just NTTG's footprint. The WECC PDWG voted on doing this adjustment. It was something that was not paid attention to in the past, as there is no staff assigned to evaluate coal prices.
  - It was also noted that NTTG is not using the PCM analysis to make economic decisions. The PCM will be used to estimate incremental losses between the change cases that are analyzed.
- The TWG looked at load and resources to help select the nine stressed hour seed cases from the NTTG PCM run. Those conditions include:
  - A. Peak coincident Summer Load condition
  - B. Peak coincident Winter Load condition
  - C. Boardman to Hemingway Import
  - D. Boardman to Hemingway Export
  - E. High Tot2/COI/PDCI flows
  - F. High Wyoming Wind
  - G. High Borah West
  - H. Max NTTG Import/Low Wind
  - I. High Aeolus South and West
- In the past, the cases looked at stressing the system; however, a few of the cases are looking at flows on a particular transmission system or path. It was asked what the reasoning behind picking those cases were. For example, the Boardman to Hemingway (B2H) Import/Export Cases are specifically related to that transmission path and not the NTTG system.
  - Both Idaho Power and BPA in southeast Idaho are relying on B2H to serve firm load. In past cycles, a number of conditions selected did not consider firm load serving requirements. Whereas in this cycle, each of the cases is based on firm transmission service requirements that have to be met.
  - Each case is a condition that the different transmission facilities could be subject to. In this instance, the case label reflects the primary transmission facility of interest and will be studied as a non-committed project.
- The 8,760 hours were put into a [spreadsheet](#) to select the nine stressed conditions. The TWG "sliced and diced" each row looking for the specific conditions referenced in the 4<sup>th</sup> column. That column was then sorted for the top 5 or 6 stressed hours. Following that, the TWG extracted one hour, which would be studied for the specific condition.
  - All changes to each of the conditions will be tracked by the TWG.
- Ron Schellberg walked through the details for each of the nine seed cases. Balloon diagrams were developed to show the interchange between each BA as well as another diagram that showed the physical depiction of the case and selected generation within the NTTG footprint. Lastly, a table was displayed showing the interfaces of each case ([Slides 20 – 55](#)).
  - During the review, Ron Schellberg indicated the pie charts on the physical depiction diagrams for each case needed to be revised as they are showing the incorrect data. Once those have been corrected, the presentation will be reposted to the NTTG website.
- Following the review of each seed case, it was pointed out that the Aeolus seed case (Case I), had a higher wind export than the High Wyoming wind export case. A question was raised as to why that condition was not chosen for the High Wyoming wind export case.
  - When looking at the different stressed conditions only one case had flows on Aeolus South.

- However, if there are different conditions stakeholders believe the TWG should look at, they are encouraged to submit their comments.

**Discussion: NTTG 2018-2019 NTTG Draft Change Case Table**

- Prior to walking through the Change Case Matrix, Ron Schellberg reviewed the [case terminology](#).
  - It was noted the “Base Case”, includes all the Prior Regional Transmission Plan (pRTP) facilities, not the Initial Regional Transmission Plan (iRTP) facilities (as listed on the slide). This will be corrected prior to reposting the presentation following the meeting.
- The cases in the [Change Case Matrix](#), are listed in the following way:
  - Null case through the CC5 case are focused on NTTG facilities serving NTTG load. The TWG will be performing reliability analysis of those facilities.
  - CC6 – CC9 are looking for Interregional Transmission Project (ITP) benefits that would be applicable to the NTTG footprint.
  - CC10 – CC29 are principally for ITP sensitivity study evaluations. The ITP is added to the NTTG footprint as well as the RPS resources associated with that project.
    - Each of these cases will be ran with and without the B2H project.
- While not every change case combination can be evaluated, the cases listed are a starting point for the TWG. Should a case need to be modified to meet the reliability criteria, the TWG will do so and that change case will be added.
- Following the comment window, any changes made will be presented to Planning Committee members during their September meeting with a goal to have the final change cases selected in October. The TWG will also review preliminary reliability study results at the September meeting as well.
- Following up on the previous conversation relating to the B2H export case. If the decision of picking the case was not related to it being a stressed condition, what changes were made to make it stressed and what was the reason behind the changes.
  - Ron Schellberg indicated the B2H export case is not a stress condition. However, if the TWG wanted to pursue doing reliability based studies on a high east to west flow on B2H, then the case would need to be adjusted. The TWG would rely on Idaho Power to make those adjustments to affect the desired flow conditions. At this time, the B2H export case is not being used for load service requirements in Idaho, nor does the TWG have to study it. However, the import condition is required to meet firm requirements.

**Discussion: Stakeholder Comment Window**

- Chelsea Loomis informed attendees the window for submitting comments on the selected stressed conditions and Change Case Matrix opened today, August 15<sup>th</sup>, and will remain open until 5:00 pm on Friday, August 24<sup>th</sup>. Comments can be submitted to [info@nttg.biz](mailto:info@nttg.biz).
  - An email notice has been sent to NTTG stakeholders and committee members with links to the materials posted on the NTTG website.
- The TWG will consider stakeholder input, draft responses, and possibly make modifications.
- During the September NTTG Planning Committee meeting, members will review and vote on the draft responses and proposed revisions to the stressed conditions and Change Case Matrix.

**Discussion: Round Table/Other Business**

- There were none.



### 3. Assignments:

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

**Next Meeting:** The next Northern Tier Planning Committee Meeting is scheduled for September 19<sup>th</sup> at 1PM Pacific.

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

### Attendees:

#### NTTG Planning Committee Member Representatives

##### Membership Class 1

Jared Ellsworth, Vice Chair, Idaho Power	Nathan Powell, Deseret	Bob Smith, TransCanyon
Chelsea Loomis, Chair, NorthWestern	Craig Quist, PacifiCorp	Curt Winterfeld, Citizens Energy

##### Membership Class 2

Marshall Empey, UAMPS	Rhett Hurless, Absaroka	
-----------------------	-------------------------	--

##### Membership Class 3

James Branscomb, WY PSC	John Chatburn, ID OEMR	Bob Decker, MT PSC
-------------------------	------------------------	--------------------

#### Other NTTG Members & Guests

Jamie Austin, PacifiCorp	Kishore Patel, PacifiCorp	Ron Schellberg, NTTG
Sharon Helms, NTTG	Katie Pegan, ID OEMR	Amy Wachsnicht, NTTG
Regina McCormack, Invenenergy		