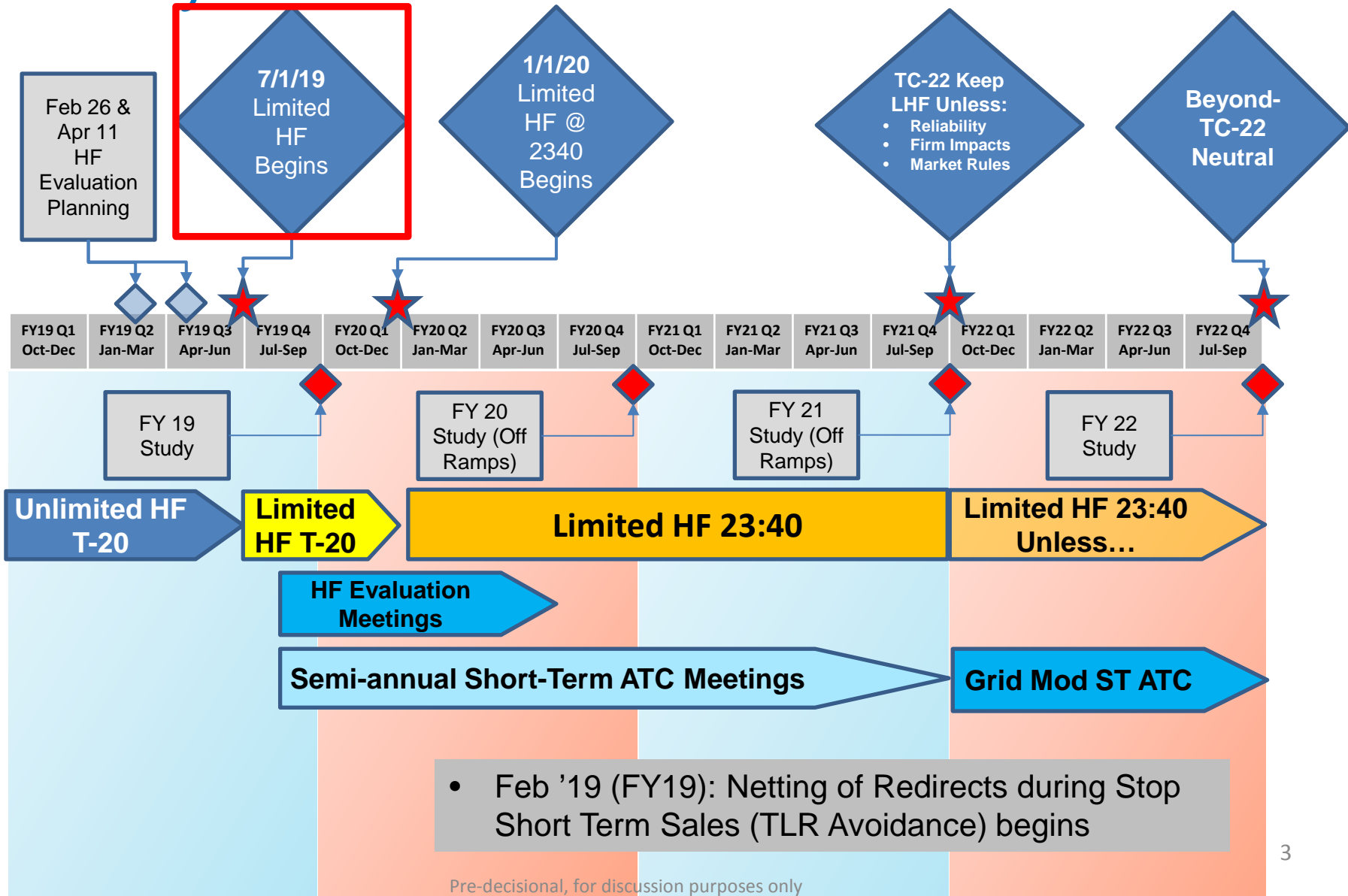


TC-20 Settlement Customer Workshop Webinar

August 6, 2019

Hourly Firm & Short-Term ATC Timeline



SHORT TERM ATC CHANGES

Short Term ATC Project Status

1. At the June 13th customer meeting, BPA shared that we would be working on the following ST ATC improvements over the next few months
 - a. Updating Power Transfer Distribution Factors (PTDFs) for network paths more frequently
 - b. Eliminating the impacts of unscheduled Network Integration Transmission Service of BPA's adjacent Transmission Service Provider areas (noted as RETC in ATCID) from BPA's ST ATC on the network paths
 - c. Implementing an updated Total Transfer Capability (TTC) and Transmission Reliability Margin (TRM) for West of Garrison E>W
 - d. Implementing a flow-based analysis to calculate Existing Transmission Commitments (ETC) across West of Hatwai

Short Term ATC Project Status (cont.)

2. Comments on these proposed improvements were due on July 12th
3. BPA didn't receive any formal customer comments, but we have considered the feedback we received at the meeting as we work to implement these improvements
 - a. We will discuss the ideas around the PTDF proposal at the September workshop
4. BPA anticipates an implementation day of August 14th for the following two improvements:
 - a. Eliminating the impacts of unscheduled Network Integration Transmission Service of BPA's adjacent Transmission Service Provider areas (noted as RETC in ATCID) from BPA's ST ATC on the network paths
 - b. Implementing an updated Total Transfer Capability (TTC) and Transmission Reliability Margin (TRM) for West of Garrison E>W

August 14th Improvements

Improvement: Eliminating the impacts of unscheduled Network Integration Transmission Service of BPA's adjacent Transmission Service Provider areas from BPA's ST ATC for its network paths

1. Currently, these impacts are included in BPA's real-time horizon ETC, and therefore real-time horizon ATC, for the network paths as a RETC variable in the initialization reports
2. BPA will stop calculating these values on August 14th
3. Customers will see a Zero value in the RETC variables in OATI starting August 14th, as BPA will override the current values to Zero
4. Eventually, the RETC field will be blank
 - a. The RETC variable will still appear in the initialization reports

August 14th Improvements (cont.)

Improvement: Implementing an updated TTC and TRM for West of Garrison E>W

1. BPA will increase the TTC across West of Garrison E>W to 2200 MW starting August 14th
 - a. 2200 MW is based on an all lines in service assumption, and does not consider ownership shares on the path
2. BPA will implement a TRM applied to Firm ATC across West of Garrison E>W, in conjunction with the TTC increase, to account for uncertainties in generation dispatch across the path
 - a. The Firm TRM will be in place when TTC is above 2000 MW
 - b. The Firm TRM is based on generation uncertainty and therefore it will be applied to all time horizons

August 14th Improvements (cont.)

Improvement: Implementing an updated TTC and TRM for West of Garrison E>W

3. Customer Impacts

- a. Customers will begin seeing updated TTC and TRM values for West of Garrison E>W upon implementation
- b. Customers may begin seeing additional non-firm ATC across the path

4. BPA has not yet completed studies for the path that incorporate Colstrip 1 & 2 retirements

Next Steps

1. BPA will update ATCID/TRMID documents prior to implementing these changes
2. September Customer Meeting
 - a. Project team will bring the next group of anticipated improvements
 - b. Team will bring a timeline and list of anticipated long-range improvements