

TC-20 Settlement Customer Workshop Webinar

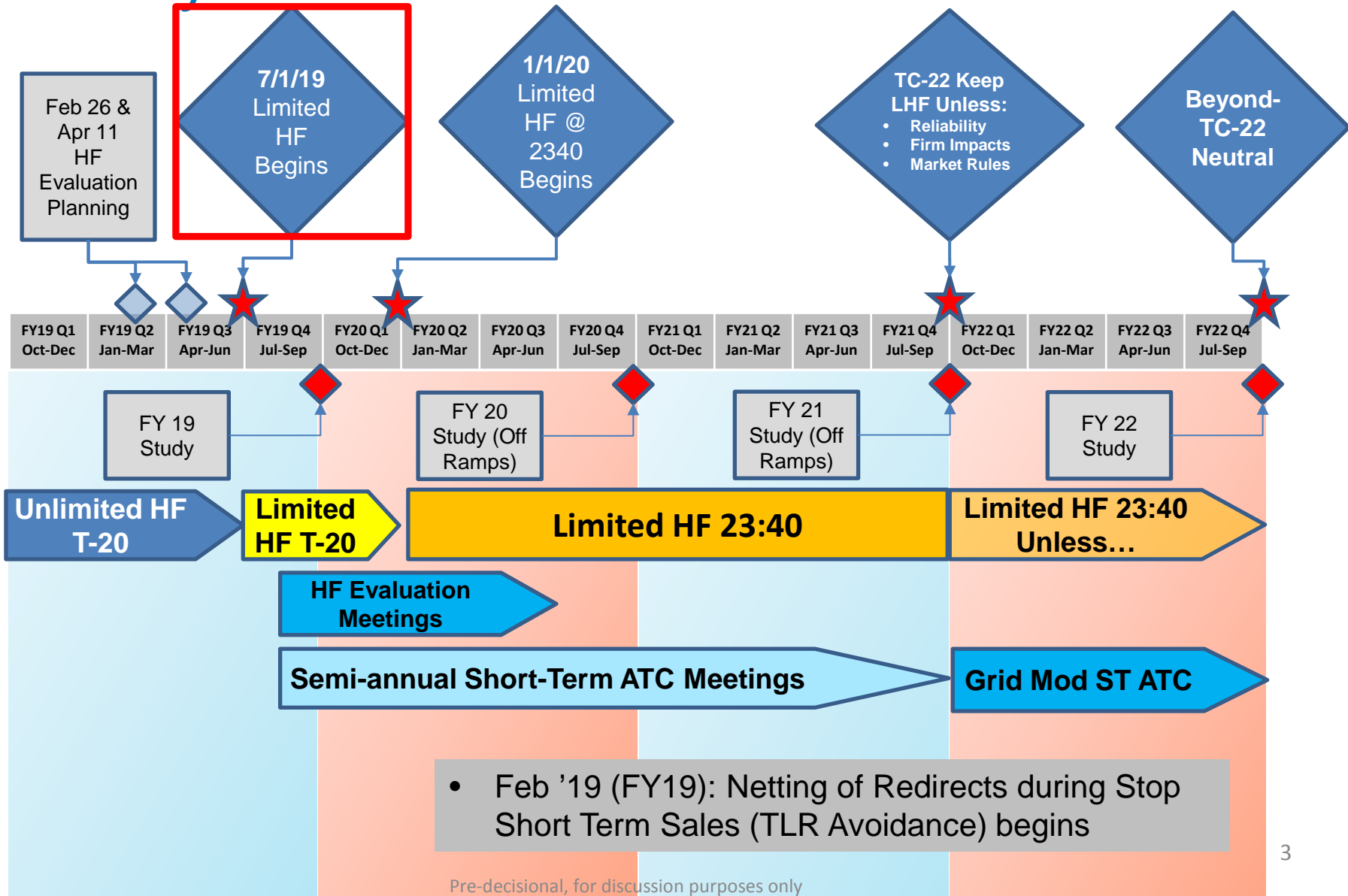
August 6, 2019

TC-20 Customer Webinar Agenda

August 6, 2019

TIME	TOPIC	PRESENTERS
9:00 - 9:10 AM	Agenda Review	Katie Sheckells
9:10 - 9:40 AM	Hourly Firm Update - 23:40 Discussion, Monitoring & Evaluation Plan & Changes since July 1	Kevin Johnson & Katie Sheckells
9:40 - 10:00 AM	Short Term ATC Changes	Kevin Johnson
10:00 - 10:30 AM	Network Services Update - Seller's Choice, NT Dialogue, NOA & Product Conversions	Katie Sheckells, Melanie Jackson & Toni Williams
10:30 - 10:40 PM	Wrap up and Next Steps	Katie Sheckells

Hourly Firm & Short-Term ATC Timeline



HOURLY FIRM UPDATE

Hourly Firm 23:40 Discussion

Hourly Firm 2340 Discussion

- Per the TC20 Settlement Agreement
 - Hourly firm reservations will not be available in real-time starting January 1, 2020. Hourly firm may only be reserved until the day prior to the operating day at 2340.
- Business Practice will be updated to reflect the new timing restriction
- Transition on December 31, 2019 :
 - Prior to 2340, all hours of January 1, 2020 are available for Hourly TSRs
 - After 2340, no hourly TSRs for January 1, 2020

Hourly Firm Monitoring & Evaluation Plan

Monitoring & Evaluation Plan Schedule

7/1/19:

- Posted the Final Draft – Hourly Firm Monitoring & Evaluation Plan for customer comments
- Began limiting the Hourly Firm product to Bonneville’s posted available transfer capability (ATC)

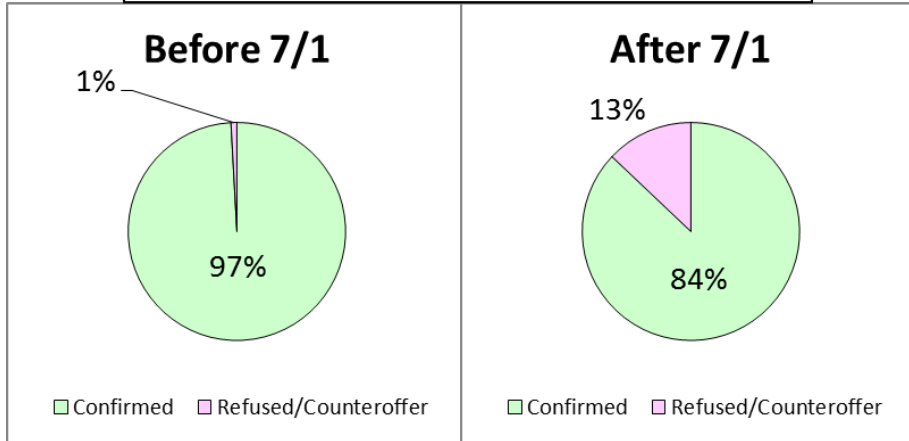
7/29/19:

- Customer Comment period ended
- No Comments received
- Final Draft will be considered Final version

Hourly Firm Changes Since July 1

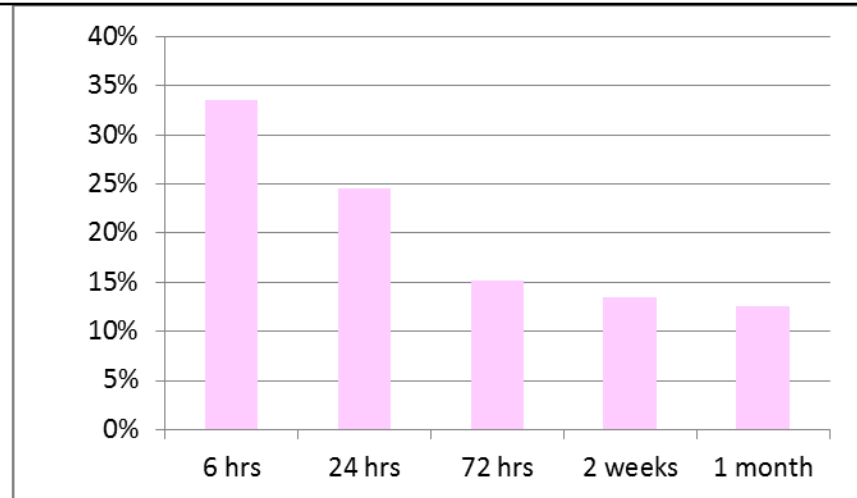
Hourly Firm Before and After 7/1/19

Significant Refusal of Hourly Firm



*Note: Other statuses (such as Invalid) are excluded.

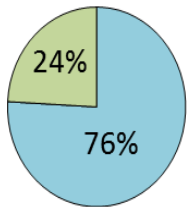
Hourly Firm Requests Refused since 7/1



Short-Term Market

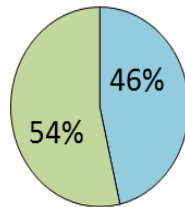
Shift from Hourly Firm to Non-Firm

Before 7/1



Hourly Firm Hourly Non-Firm

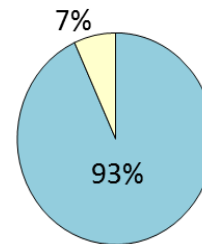
After 7/1



Hourly Firm Hourly Non-Firm

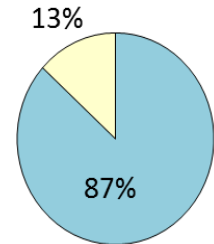
Shift from Hourly to Other Short-Term Firm

Before 7/1



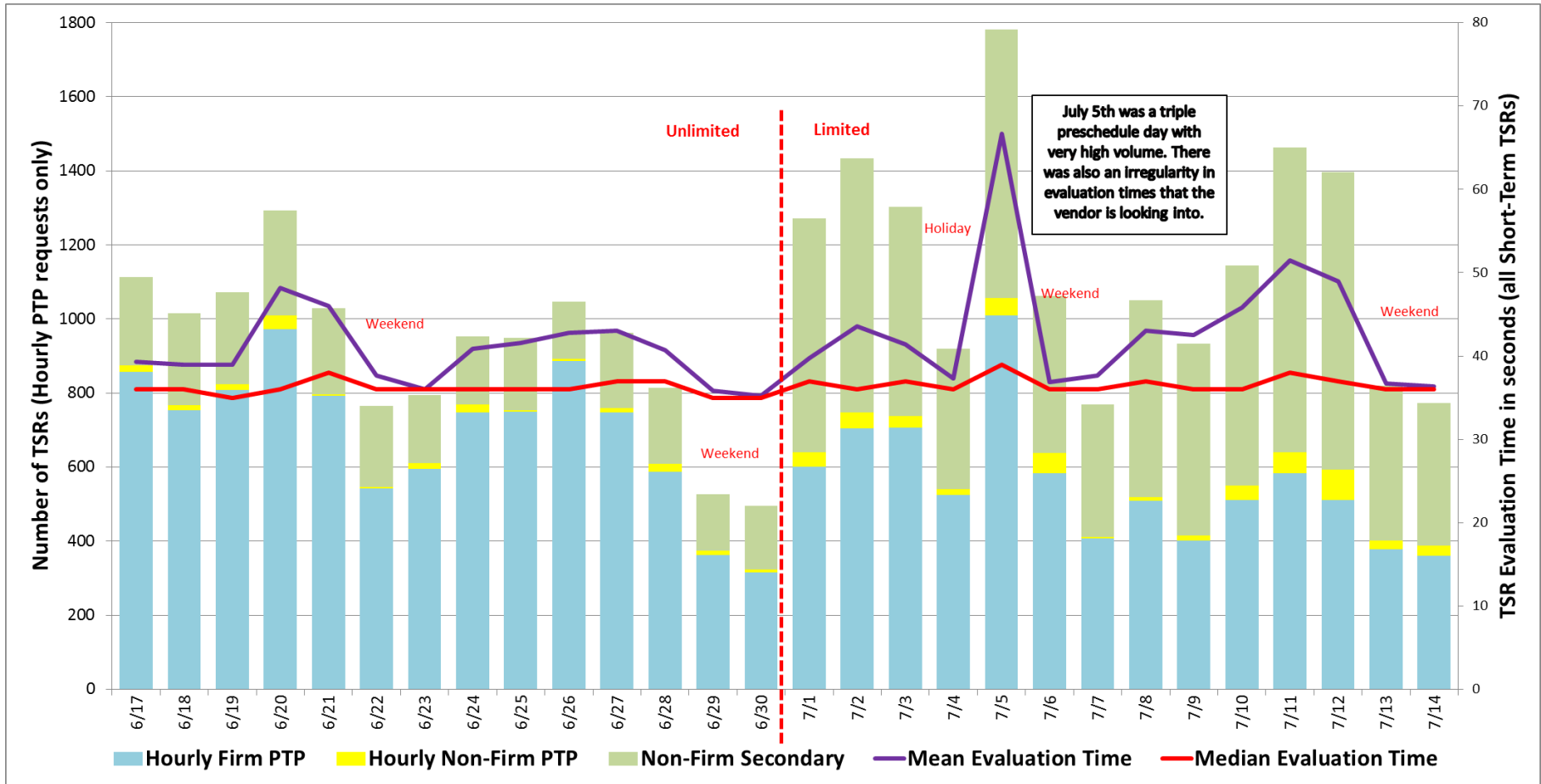
Hourly Firm Other Short-Term Firm

After 7/1



Hourly Firm Other Short-Term Firm

Hourly PTP Profile and TSR Evaluation Time



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

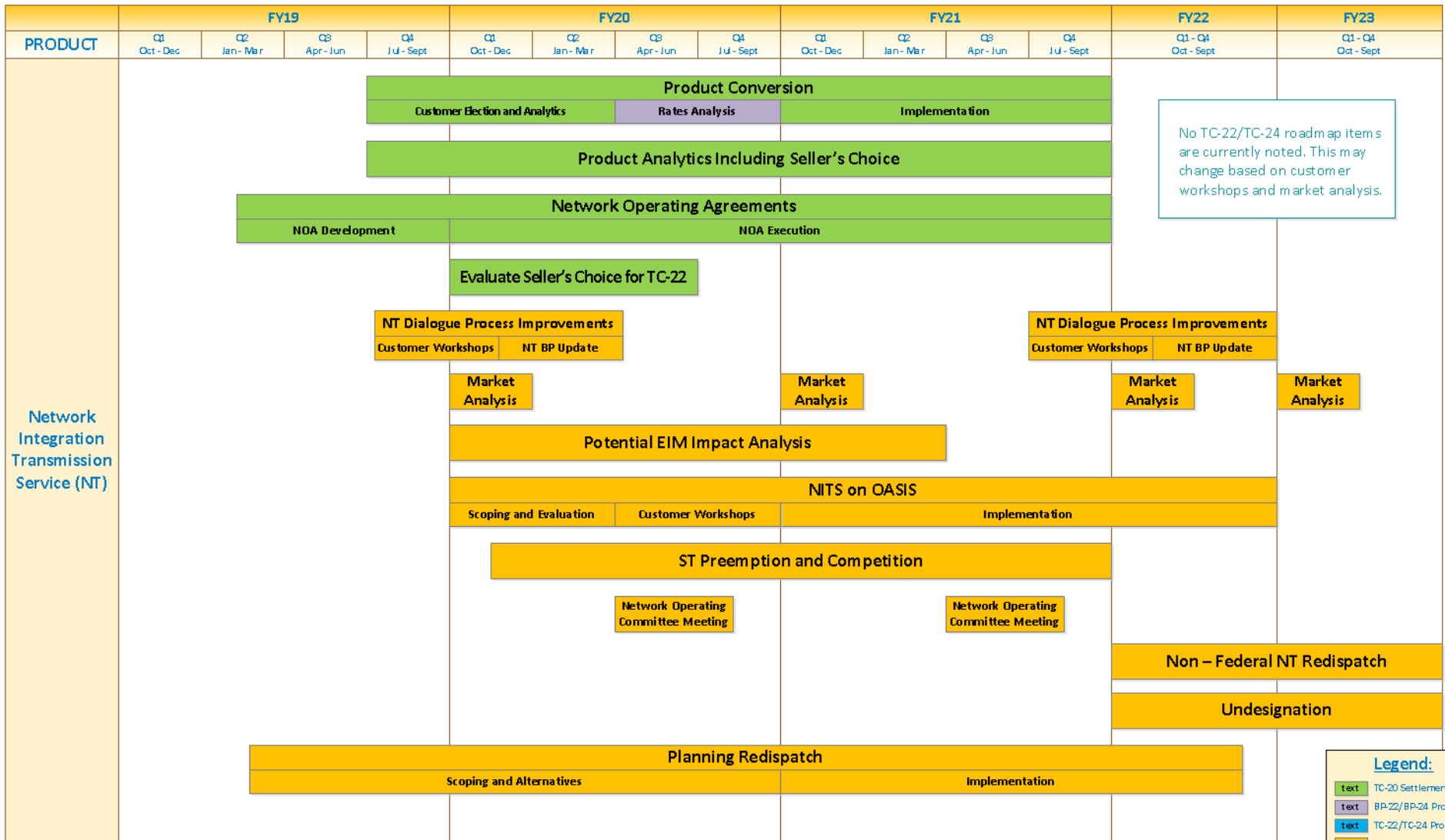
4. BPA has not yet completed studies for the path that incorporate Colstrip 1 & 2 retirements

Next Steps

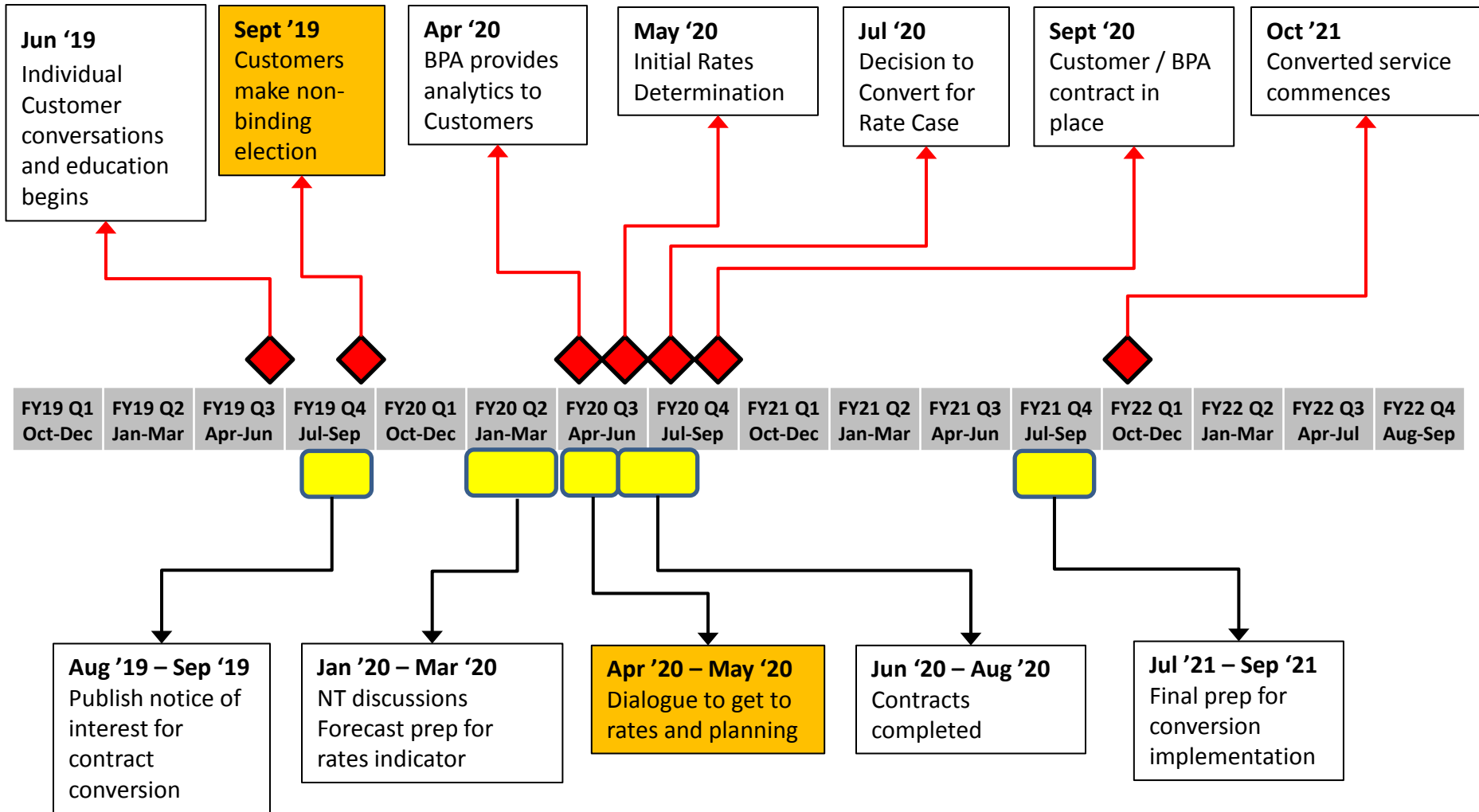
1. BPA will update ATCID/TRMID documents prior to implementing these changes
2. September Customer Meeting
 - a. Project team will bring the next group of anticipated improvements
 - b. Team will bring a timeline and list of anticipated long-range improvements

NETWORK TRANSMISSION SERVICES UPDATE

NT Product Roadmap (Draft)



Product Conversion Timeline



WRAP UP AND NEXT STEPS

Upcoming Customer Engagement Dates

- September 13: NOC Webinar
- September 26: TC-20 Customer Workshop

DRAFT

TC-20 Customer Workshop Agenda

September 26, 2019

- Transmission Business Practice Process
- Hourly Firm
- Product Conversions
- Network Services Topics
- Proposed ATC Changes
- Losses
- TIPP

TC-20 Settlement Commitments

SETTLEMENT AGREEMENT #	TC-20 Settlement Commitments	DATE
(01)	Incorporate Section 9 Tariff and Rate Modifications in the Tariff	Complete
(02)	Implement hourly firm limited by ATC	Complete
(02.a)	Restrict real-time hourly firm reservations at 2340	12/31/19
(02.d)	Begin monitoring and evaluating hourly firm performance	Have begun & On going activity
(02.d)	Conduct one or more workshops to develop a plan for monitoring and evaluating hourly firm product	Complete
(02.d)	Develop a plan for monitoring/evaluating hourly firm and consider comments	Complete
(02.d)	Share results of the evaluation twice with customers	9/26/19 & on going activity through 7/1/20
(02.d.i)	Evaluate HF product	In process
(02.d.ii)	Provide responses to customer queries & provide transparent data	In process
(02.d.iii)	Conduct HF analysis	In process
(02.e)	Develop an accurate and transparent short-term ATC methodology	10/1/21
(02.e.i)	Begin Identifying potential ST ATC improvements that could be implemented by 10/1/21	Have begun & On going activity
(02.e.ii)	Hold ST ATC workshops - 4th qtr 2019 and 2nd and 4th qtrs of each fiscal year until 10/1/21	9/26/19 & on going activity through 10/1/21
(02.f)	Apply preemption and competition to daily and hourly firm, including redirects IF OATI implements relevant NAESB standards	FERC issued an NOPR on 5/16/19
(02.f)	Evaluate implementing preemption and competition to daily and hourly firm, including redirects	Pre-TC22 Workshops
(02.g)	Update Network Integration Transmission Service Business Practice to include Seller's Choice	Complete
(02.g)	Implement Seller's Choice	Complete
(02.h)	Implement Netting of Redirects under Stop Sales Events (TLR Avoidance)	Complete
(02.i)	Provide at least 2 conversion windows for customers desiring to switch long-term firm products from NT to PTP or from PTP to NT	Complete
(02.k)	Implement NT Redispatch Cost Allocation changes	BP-22/24
(03)	Implement changes to the Business Practice Process	Designing process charts and standard operating procedures
(04)	Incorporate Schedules 3, 9, 10 (Ancillary Services) in the Tariff	Complete
(05)	Incorporate Section 12.1 Dispute Resolution in the Tariff	Complete
(06)	Implement changes to NT service - NT Conditional Firm and Network Operating Agreement	In process, see NT Roadmap for details
(06.a)	Implement NT Service according to the NT Service Overview flowchart & Workstream Roadmap	In process, see NT Roadmap for details
(06.a)	Remove NT Conditional Firm from Tariff	Complete
(06.b)	Create a template Network Operating Agreement, revise Attachment G, and negotiate individual agreements	In process, see NT Roadmap for details
(07)	If non federal resources apply, then BPA to hold public process to determine appropriate rules and protocols associated with non-federal redispatch	
(07)	Revise NT Redispatch language & remove Attachment M as reflected in Attachment 2	Complete
(07)	Revise NT Redispatch Business Practice through the agreed upon BP process	Complete
(08)	Implement modified Generator Interconnection procedures	10/1/19
(08.a)	Develop a Business Practice to implement specific reforms in FERC Order Number 845 related to Generator Interconnections	BP posted for public comment
(08.b)	Incorporate Attachment L and N to remove references to filing tariff and unexecuted LGIA with FERC	Complete
(09)	Incorporate new Schedule 11 to document the Real Power Loss Factor	Complete
(10)	Remove the price cap for assignment or transfer of Transmission Service	Complete
(12)	Begin a stakeholder process to develop a process to study requests on the southern intertie	12/31/19
	Incorporate Attachment K Transmission Planning Process in the Tariff	Complete