



SPP WEST RTO MEMBERS FORUM

JUNE 1, 2021

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POLICY DIRECTIONS

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100 KV THRESHOLD

- Threshold for general transmission classification under Attachment AI in the Western Interconnection will be 100kV

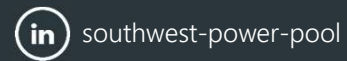
GI QUEUE POLICY RECOMMENDATION

- The goal is to have one generation interconnection (GI) queue for all requests in the East and West. SPP may request a waiver from FERC for West GI queue requests to be processed without waiting on the backlog to be cleared in the East GI queue. The timing of integrating the West parties and clearing the East backlog will determine if a waiver request is needed. If a waiver is needed, it will only be until the East queue is caught up; then SPP will have a single queue for the East and West.

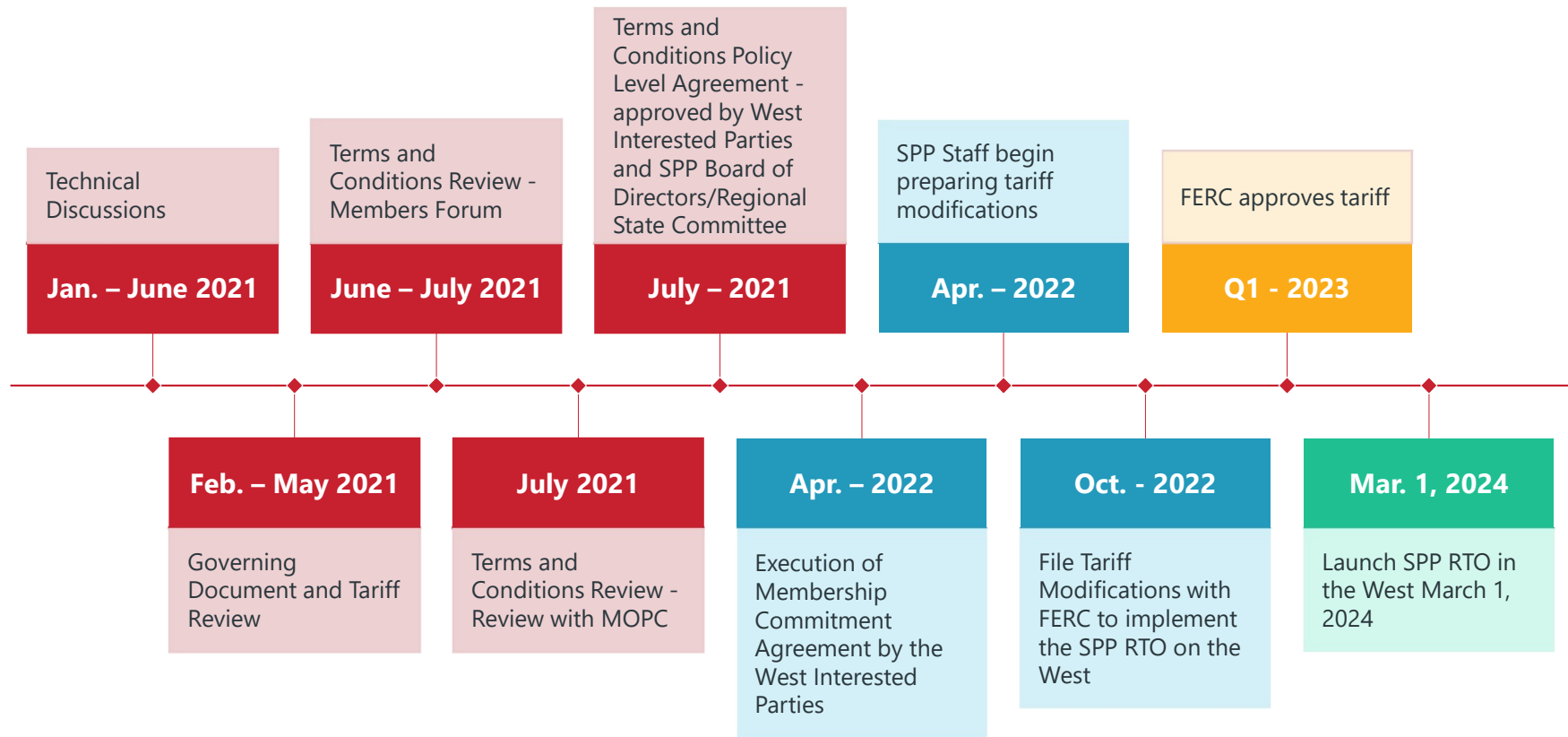


SCHEDULE

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TIMELINE





TERMS AND CONDITIONS PACKAGE

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HIGH LEVEL

- Executive Summary
- Background and Process
- Policy Areas
- Membership Commitment Agreement

POLICY AREAS

- Governance
- Market Design
- Operations
 - Reserve Sharing
- Transmission Planning
- Attachment AU
- Point-to-Point Transmission Service
- Network Transmission Service
- DC Ties
- Compliance
- Western Area Power Administration Specific Provisions
 - Federal Service Exemption for Cost Allocation
- Zonal Construct
- Existing Agreements / Seams

MEMBERSHIP COMMITMENT AGREEMENT

DRAFTING SCHEDULE

- June 9th - Staff Draft shared with SPP West
- June 16th – Review with SPP West and
- June 17th – Members Forum Steering Committee
- June 23rd – Draft shared with Members Forum
- **June 25th** – Members Forum Draft Review Meeting
- June 30th – Forum Feedback Due
- July 7th – Finalized Terms and Conditions



ITEMS UNDER DISCUSSION

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DC TIE TASK FORCE

STEVE JOHNSON

DC TIE TASK FORCE

- Areas currently under discussion:
 - Cost allocation of legacy DC tie assets
 - Current
 - Future
 - Market utilization of DC ties
 - No Hurdle Rate
 - ARR/TCR management across DC ties
 - Planning criteria for DC tie facilities

MARKET OPERATIONS ACROSS DC TIES

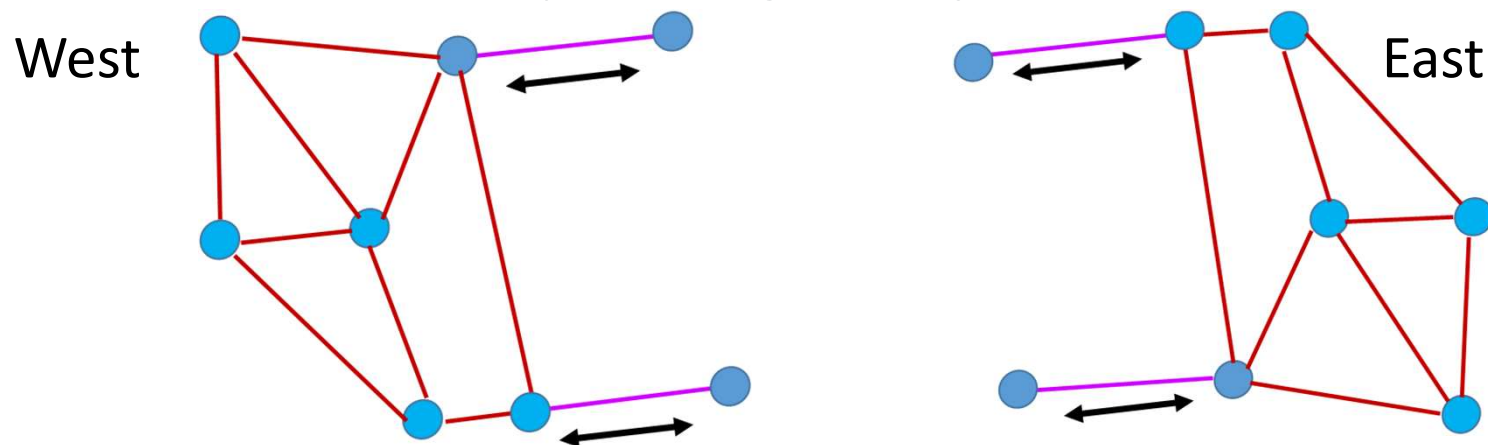
DANIEL HARLESS

OVERVIEW

- This presentation provides a potential design for a single co-optimized dispatch across the DC Ties
- Assumptions for the design
 - No hurdle rate
 - Single Security Constrained Economic Dispatch (SCED) incorporating DC Tie limitations
 - SCED includes losses across the DC Ties

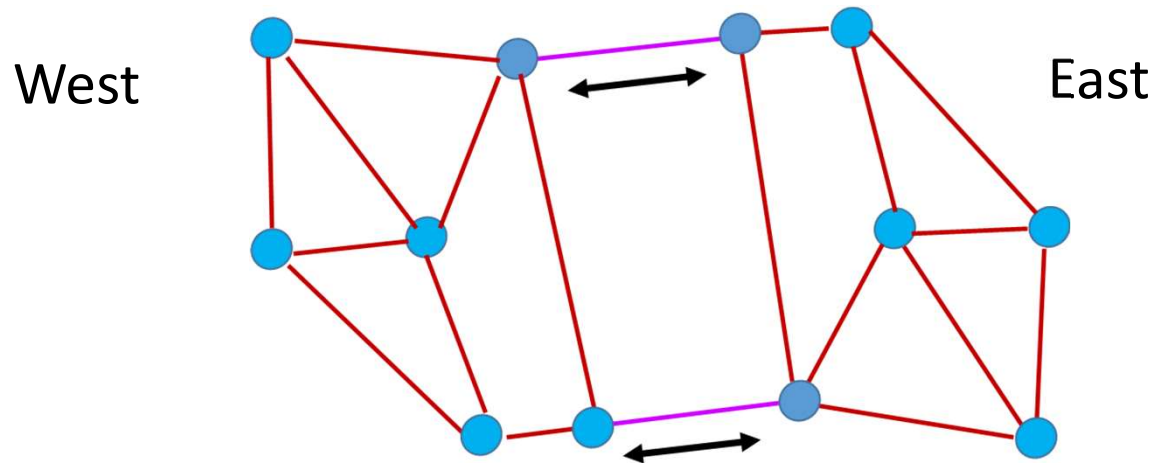
POTENTIAL POWER BALANCE CONSTRAINT UPDATE

- High-level Power Balance constraint for one Interconnect
 - $\text{Gen} - \text{Load} - \text{Losses} = 0$
- High-Level updated Power Balance constraint to incorporate DC Ties
 - $\text{Gen} - \text{Load} - \text{Losses} + \text{TieFlow}_{\text{in}} - \text{TieFlow}_{\text{out}} = 0$
- Each Interconnect will have its own Power Balance constraint
- The Interconnects are joined together by TieFlow portions of the constraint



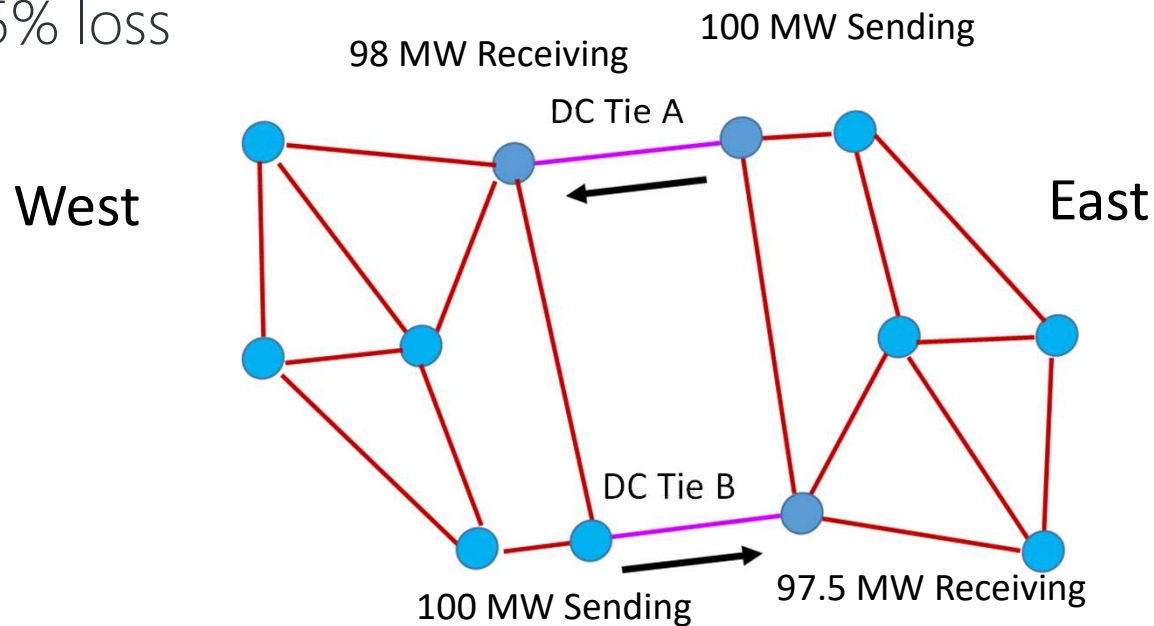
POTENTIAL DC TIE CONSTRAINTS

- DC Tie Limit constraint
 - $DCTie_{dispatch} \leq DCTie_{max}$
- DC Tie Equality constraint (will have equality constraint for both directions)
 - $DCTie_{receiving_end} = DCTie_{sending_end} - \text{Losses across DC Tie}$
- Each DC Tie will have its own set of constraints



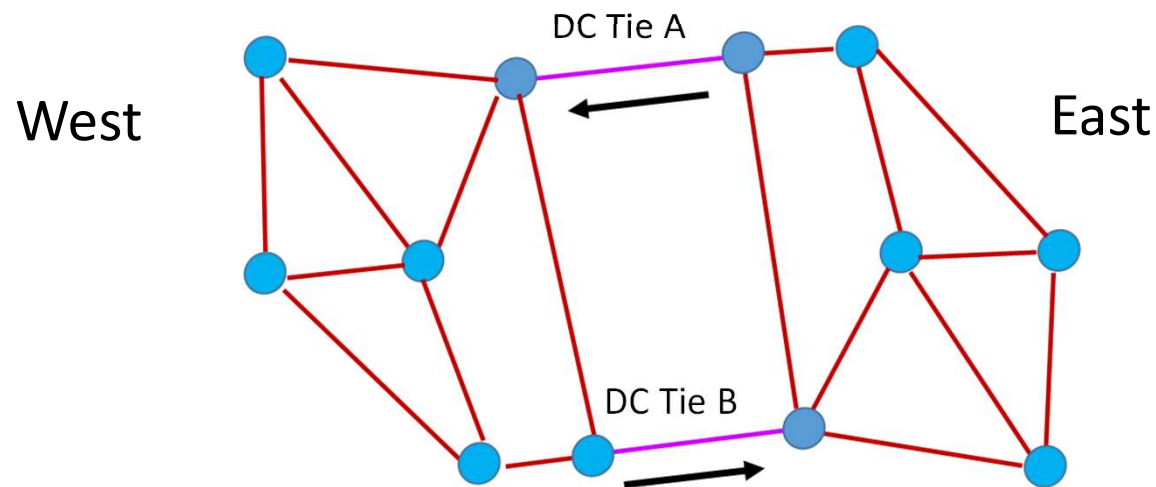
DC TIE CONSTRAINT CONTINUED

- Example:
 - Tie Limits are 100 MW in both directions
 - Tie A has a 2% loss
 - Tie B has a 2.5% loss



DC TIE LOSSES

- Reason for including losses
 - Accurately model and economically dispatch the system
 - Avoid circulating tie flows to avoid losses



QUESTIONS?

GRAND FATHERED AGREEMENTS AND EXISTING TRANSMISSION RIGHTS

NICOLE WAGNER

SEAMS MANAGEMENT

CLINT SAVOY



LEADERSHIP TEAM COMMENTS

JIM JACOBY

JOE LANG

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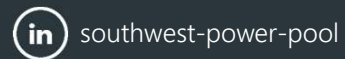


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DISCUSSION

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NEXT STEPS

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