

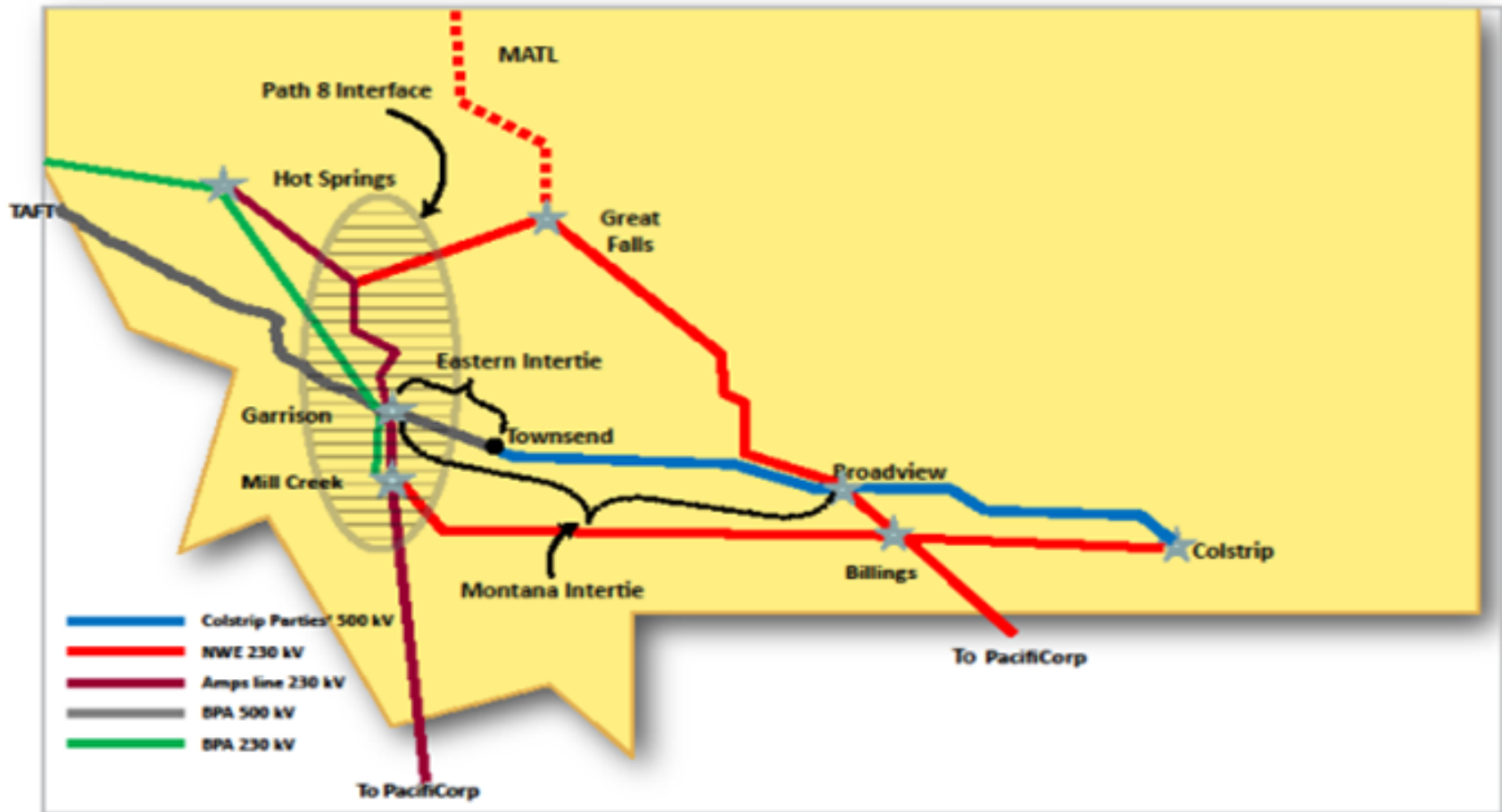
Montana Transmission BPA Perspective

December 8, 2017

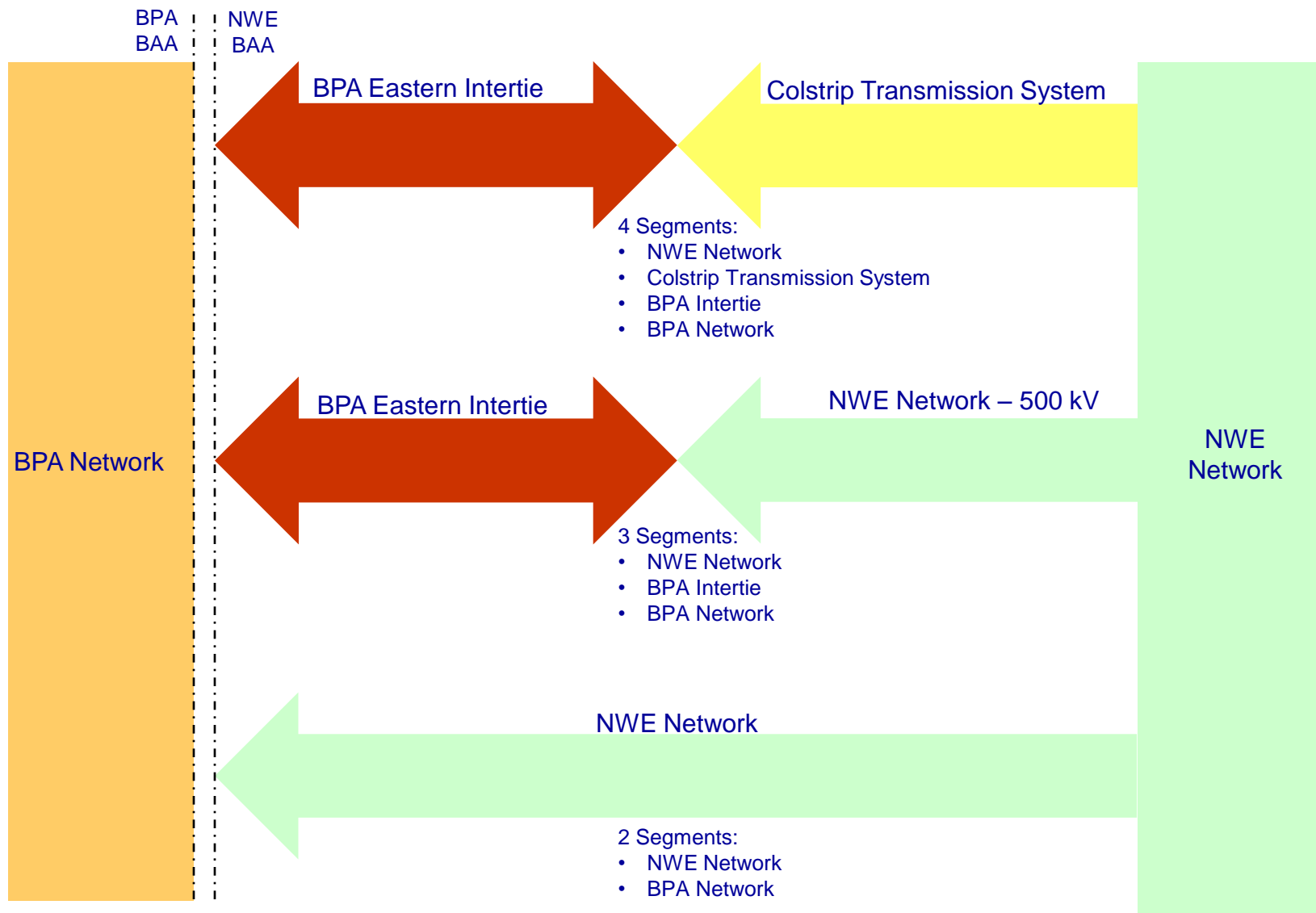
Topics

- Montana Intertie
 - Terms, capacity, rights
- BPA Network
 - Capacity, constraints, ATC
- System Expansion
 - TSEP, RAS, M2W

Major Montana Transmission



Transmission Service from Montana to BPA



Montana Intertie

- Term - 2027
- Capacity – 1930 MW

BPA	PSE	NWE	PAC	AVA	PGE
200	680	420	140	210	280

- Payments and Costs
- Exchange termination – impacts
- Impacts from Colstrip 1 & 2 Shutdown

BPA System

- Path 8 – 2200 MW
- West of Garrison – 2000 MW LTF
- ATC – 0
- Colstrip 1&2 – PSE LTF Transmission
- TSRs in BPA's Long Term Queue – 1141 MW
- TSEP and Cluster Study
 - RAS, SOA, M2W

System Expansion

- Existing Commitments: 1618 MW
- RAS – 1618>1818 MW
- M2W
 - Addition of series compensation at multiple 500 kV stations, minor line upgrades (individual structures)
 - No new line additions
 - Cost \$119M unloaded (with no contingency)
 - Timeline – 2023, at best
 - NEPA – schedule, costs
 - Other factors - SOA, CUP-East, harmonic filters at Colstrip
- New 500 kV line between Garrison and Ashe Substations

Questions