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

4 Segments:
- NWE Network
- Colstrip Transmission System
- BPA Intertie
- BPA Network

3 Segments:
- NWE Network
- BPA Intertie
- BPA Network

2 Segments:
- NWE Network
- BPA Network
Montana Intertie

- Term - 2027
- Capacity – 1930 MW

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<th>NWE</th>
<th>PAC</th>
<th>AVA</th>
<th>PGE</th>
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- 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