

**Montana Renewable Resource Development Action Plan
Operations Committee Initial Discussion**

February 12 , 2018

Time: 9:00am – 4:00 pm

**Location: NorthWestern Energy, Bozeman Division Large Conference Room 121 East
Griffin Drive Bozeman, MT**

Phone Bridge: 503-230-4000 or 866-340-4886 P-Code: 337015697

Introduction Overview

9:00am – 9:15am

- Committee members introductions
- Remarks from Vickie VanZandt
- Timeline Calendar
- Deliverables

1. Current Transmission Availability

9:15am – 10:00am

- a. Westbound
 - i. Existing ATC – TP, POR/POD, capacity, costs/rates, timing
 - ii. Firm Colstrip retirements – TP, POR/POD, capacity, costs/rates, timing
 - iii. Firm Upgrades – TP, POR/POD, capacity, costs/rates, timing
- b. Northbound/Southbound/Eastbound?
 - i. Firm ATC – TP, POR/POD, capacity, costs/rates, timing
 - ii. Firm Upgrades – TP, POR/POD, capacity, costs/rates, timing
- c. Dynamic Transfer Capability – BPA/NWE

2. Ancillary Services

10:00am – 11:00am

- a. Willingness of BAAs to provide integration services – NWE, BPA, Sink BAs
- b. Flexible Capacity Needs/studies
- c. Available Flexible Capacity- NWE, BPA, Sink BAs, Self-Supply
- d. Cost Considerations/Type
- e. Technical issues
 - i. Regulating Reserves
 - ii. Contingency Reserves
 - iii. Frequency Responsive Reserves

Break

11:00am – 11:10am

- 3. Generation Loss Impacts**
 - a. Inertia
 - b. Voltage Support
 - c. Frequency Response
 - d. Load Following
 - e. Dynamic Transfer Capacity

Lunch

12:00pm – 1:00pm

- 4. Generation Interconnection Process**
 - i. NWE
 - ii. Other BAs

1:00 pm – 1:30pm

Break

1:30pm – 1:40pm

- 5. Integration**
 - f. Diversity Benefits – MT/WA/OR Wind Diversity
 - i. Impacts on Integration
 - ii. Studies?

1:40pm – 2:00pm

- 6. Dynamics Transfer Capacity Increase**
 - g. Technical issues/studies – Operations Committee

2:00pm – 3:00pm

- 7. Next Steps/Recap**

3:00pm – 3:30pm

- 8. Future Meeting Schedules/Overall Schedule**

3:30 – 3:45