

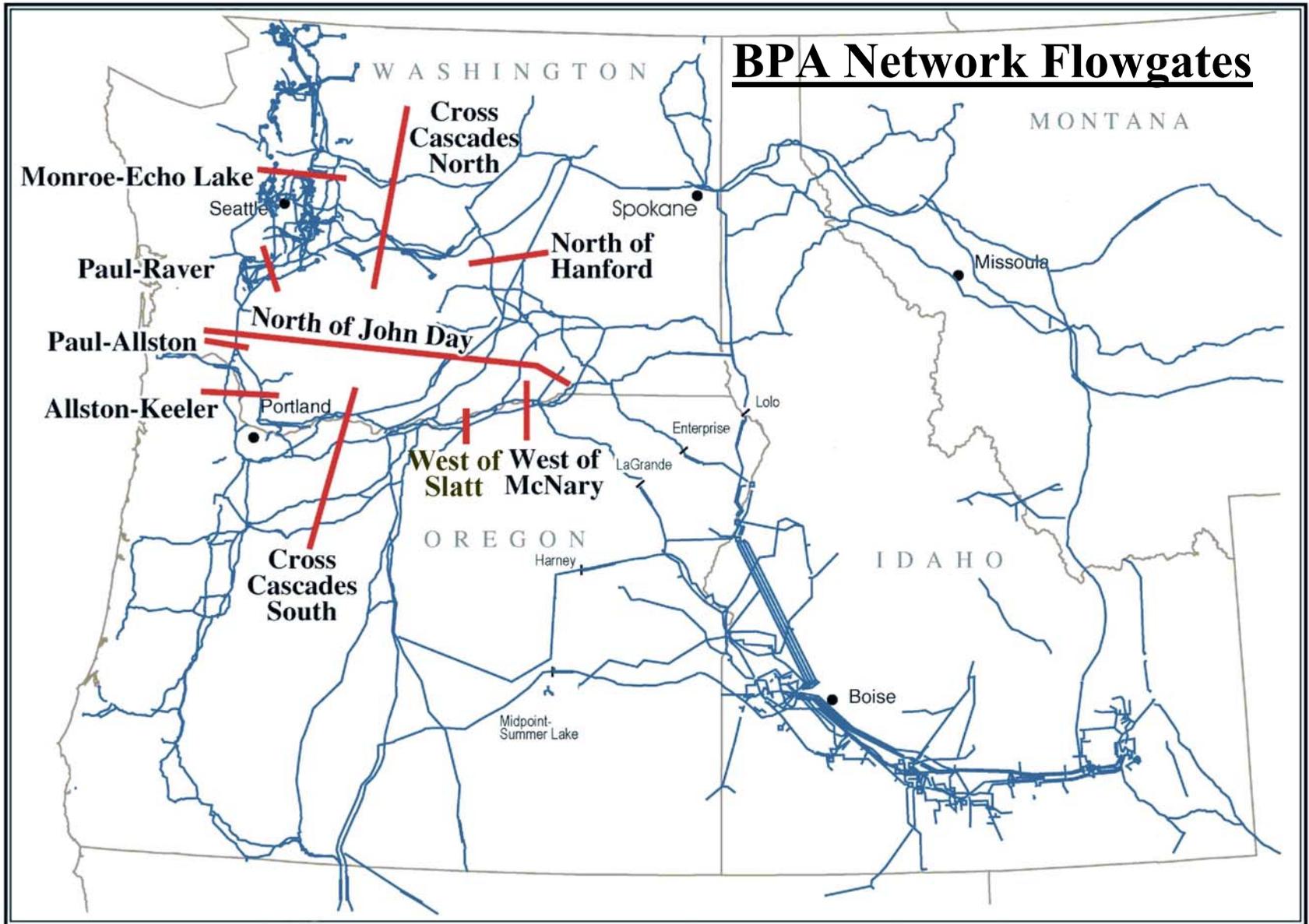
# Zonal Scheduling in TBL Control Area

*March 18, 2004*

# Need to Move to Zonal Scheduling

- Multiple internal constrained paths
- Multiple transactions across constrained paths, including NT
- No process or system at present for measuring the impacts of schedules on constrained paths
- Need near term processes that are consistent with the evaluation of Long Term requests

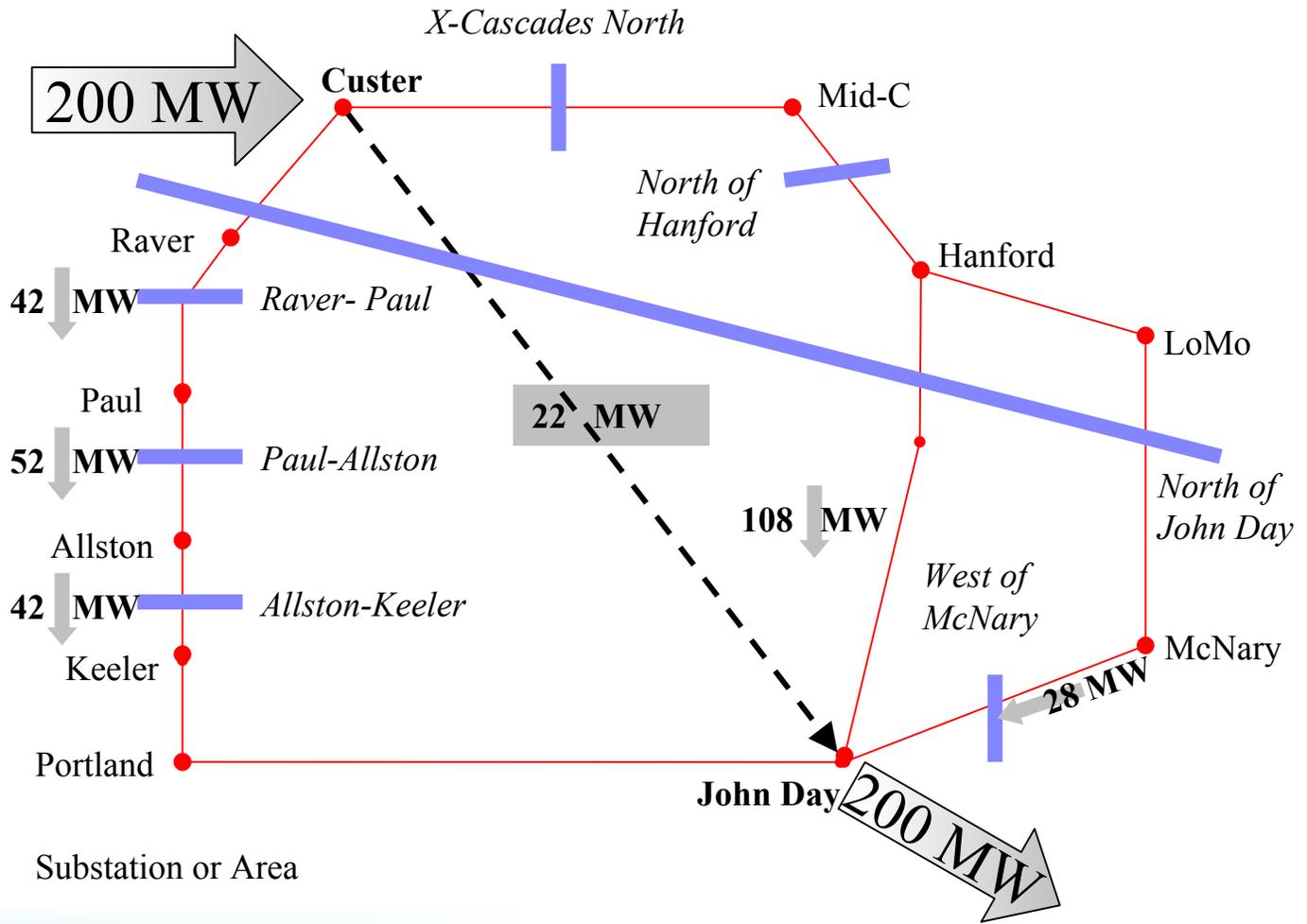
# BPA Network Flowgates



# Depiction of How a Single Transaction Uses Multiple Flowgates on the Internal System



Hypothetical Case: 200 MW  
Custer to John Day



— Cut-plane    • Substation or Area

# Problems Caused

- Cannot accurately calculate short-term ATC based on schedules (especially hourly markets)
- Cannot define who is using internal paths and what capacity of each path is being used.
- No current process exists to manage scheduling on internal constrained paths
- Inefficient handling of curtailments (West of Hatwai, PSANI)

# Benefits to be Gained

- Improved Reliability (scheduling that reflects the physics and is managed to recognize physical constraints)
- Optimized availability of transmission system
- Curtailment equity (cut by class and only those that are effectiveness)
- Improved business decisions regarding new generation locations, short-term purchases
- Defines flows on congested paths such that effective generation can be identified for redispatch.

# Timeline

- Goal is to implement in about one year  
(Spring 2005)

# Possible Solution Approaches

- Tag everything
- Zonal Scheduling
- Determine loads and generation at the Bus level
- Back-room analysis based on POR/POD descriptions (stop-gap measure)

# Next Steps

- Working Group
- Define Options
- Evaluate Options: Develop Pros and Cons and feasibility of critical elements.
- Draft Recommendation for the Region to comment on.

# Work Group Members

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