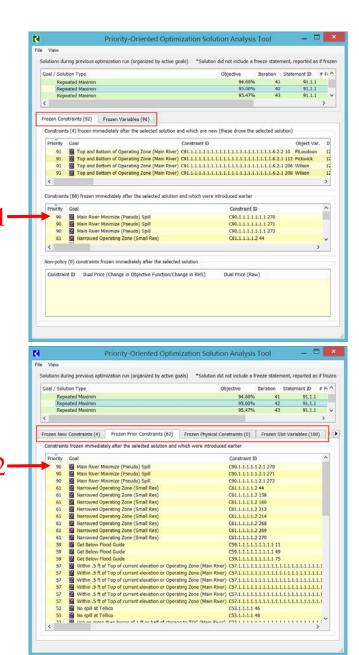


Optimization

Presenter: Tim Magee

What's New?

- Improved Numerical Stability
 - Scaling for "Summation" goals
 - (Repeated Minimax scaling years ago)
- Solution analysis
 - Improved tabs and % satisfaction
- Selectively generate LP files
 - Ability to change when run is paused
- Impulse Response on reaches
- Faster shrinking → Faster runs
- Many bugs filed and closed
- Iterative MRM with Sim/Opt/Rules



Optimization Model Improvements

- TVA
- BPA
- Mid-Columbia Models

• 5 dams operated by 3 PUDS with "slices"

Between BPA dams, small storage

- Optimization and Rules Models
- Coordinated and Uncoordinated
- Operational and Studies



What's Next?

- New timesteps: 5 and 15 minutes
 - Power, esp. markets
 - Ramping benefit
- Improved co-optimization of hydropower and thermal generation
 - Unit commitment
 - Outages
 - Hydro-thermal
- Perhaps, Predefined Rule:
 - NUMERIC Optimize (STRING RPLSetName)
 - Interest?

