

Bonneville



Power Administration

Steps to Finalize Regional Capacity Standard in Next Year

Mary Johannis

PNW Resource Adequacy Steering Committee Meeting

July 28, 2006



Technical Issues to be Addressed

- Determine whether 10 hour over 5 day Sustainable Peaking Capacity Duration is sufficient to assure Region can meet load during Cold Snap; what is the Correct Duration for a Heat Wave Event?
- Evaluate appropriate Capacity Credit for Wind for Cold Snaps and Heat Wave Events
- Revise HELMS to more accurately portray Load Increases due to Temperature Deviations
- Perform Analysis of July 24 Heat Wave Event
 - Evaluate Probability of Occurrence
 - How does Event compare with Design Event for Summer Capacity Metric and Target
 - Determine Lessons Learned that may indicate Need to Revise Capacity Metric and Target

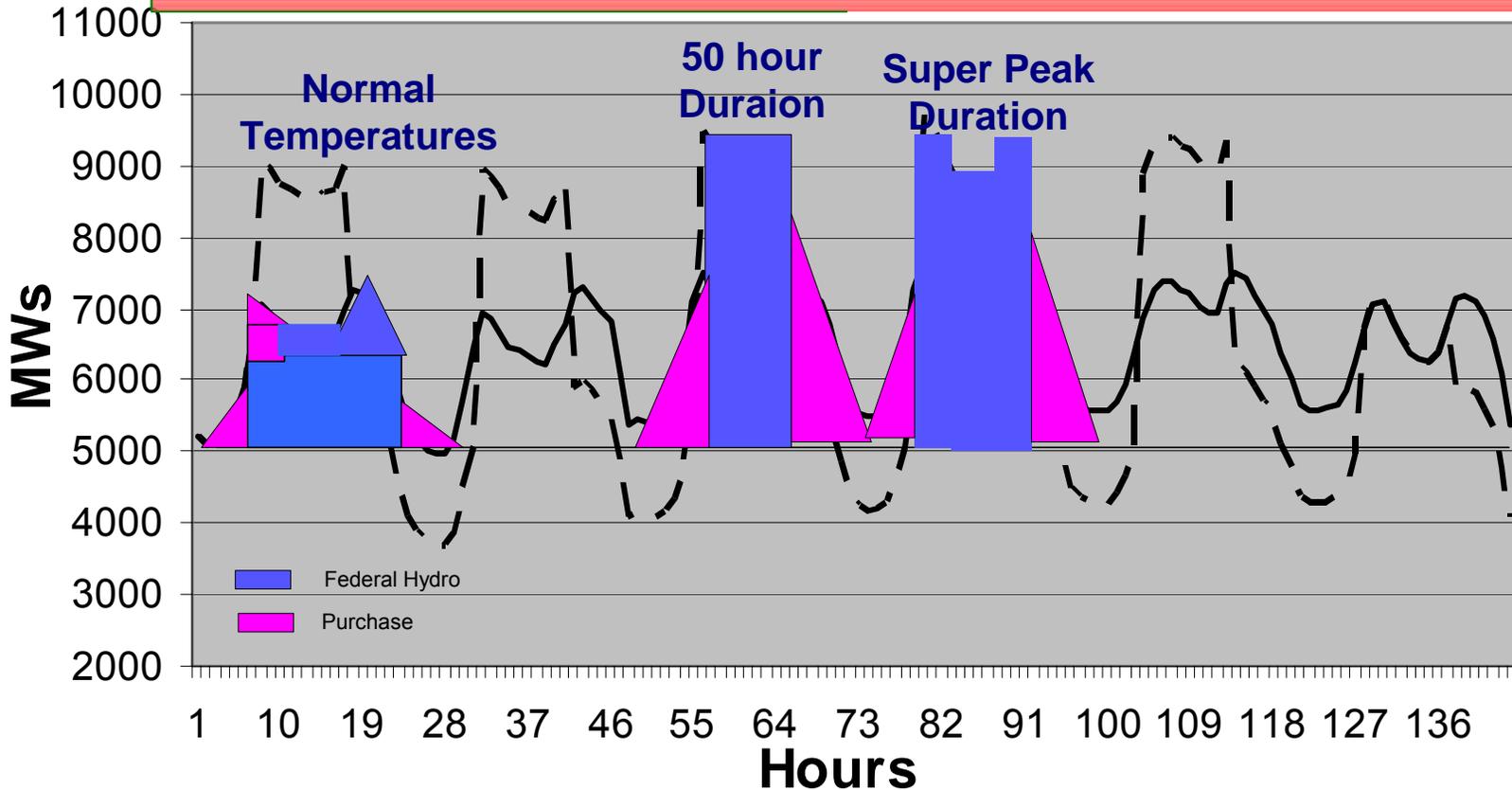


Technical Issues to be Addressed

- Work with Council Workgroup to assure continued Availability of Natural Gas for gas-fired Power Plants during Cold Snap
- Re-evaluate availability of Out-of Region Surplus Capacity in Wintertime
- Substantiate Intuitive Approach to Capacity Standard with LOLP Analysis
- Check that Probability of any increased Loss of Ability to meet Fish Targets/Ops is $\leq 5\%$ under Cold Snaps or Heat Waves



What Should the Sustained Peaking Duration be?



Illustrative FCRPS Ops to meet Average vs. Cold Snap Loads



Comparison of FCRPS Capacities (Feb 06)

Sustained Hydro Peaking Capacities

