

System Condition Update

Spring Operations Review Forum Regional Conference Call

June 24, 2011

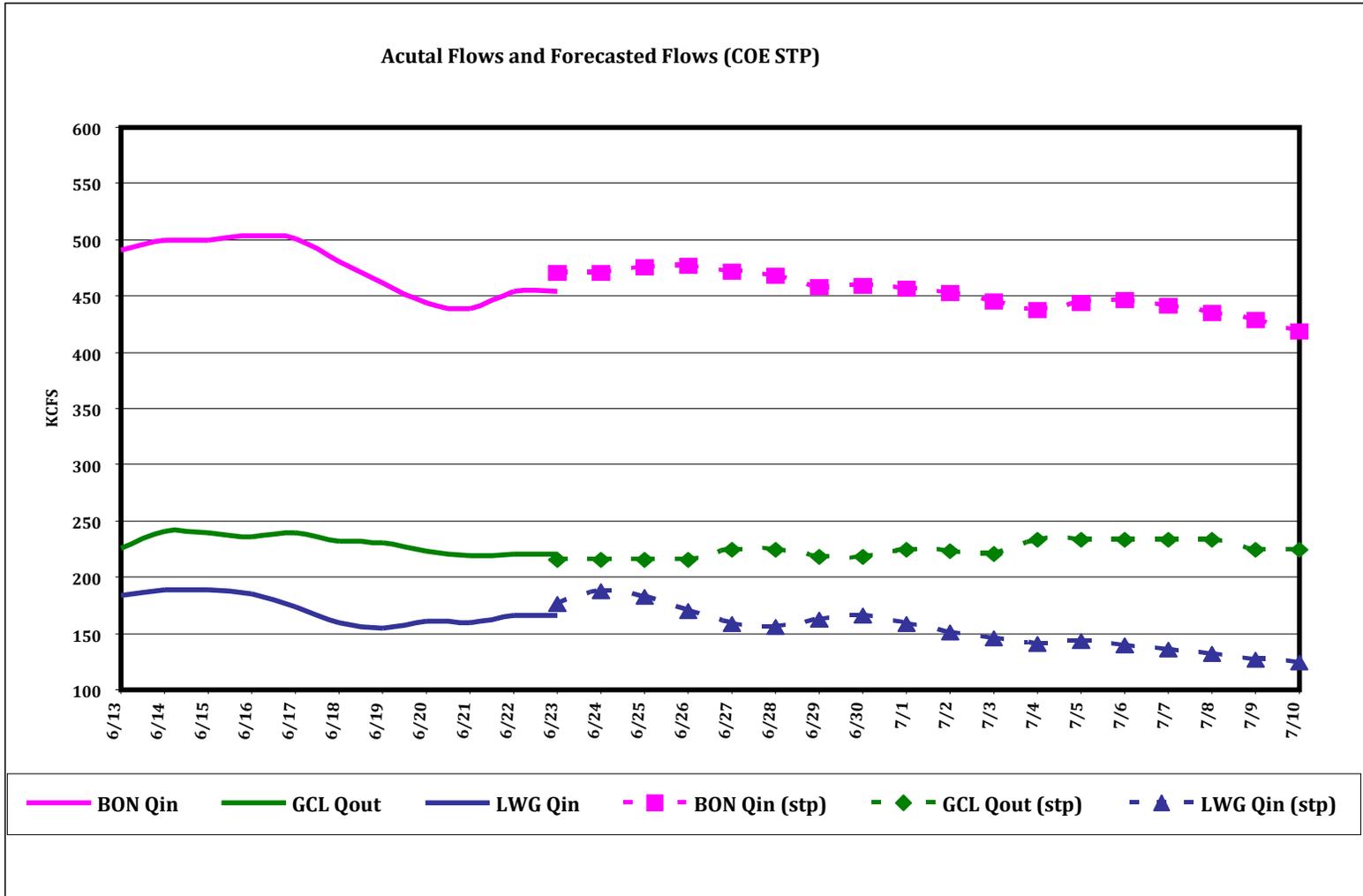
1:00 – 2:00 p.m.

To participate in the call please dial: **(877) 322-9654**

When prompted, enter access code: 328457



Hydro Operations Update



Hydro Operations Update

The Federal Columbia River Power System is being operated for system wide refill objectives while maintaining a river stage at Vancouver, Washington that prevents flooding.

- Grand Coulee, Dworshak, and Hungry Horse will likely refill in the second week of July.
- Libby will reduce to the greater of a Bull Trout flow or a flow that will achieve an end of September elevation target.
- River Forecast Center June mid-month Water Supply Forecast is 142 million acre feet.

Hydro Operations Update

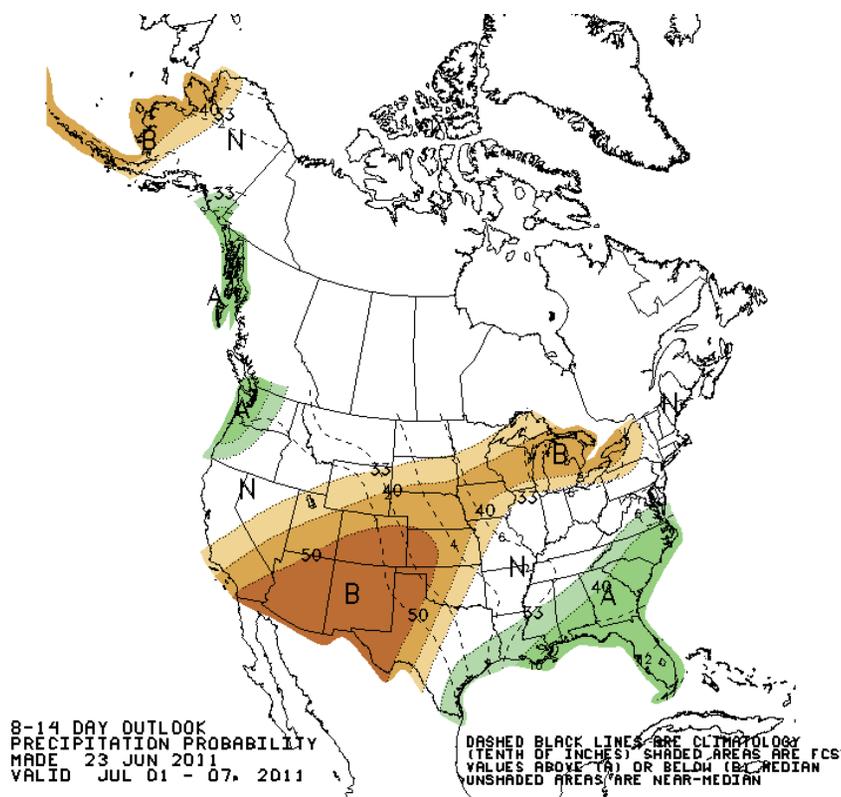
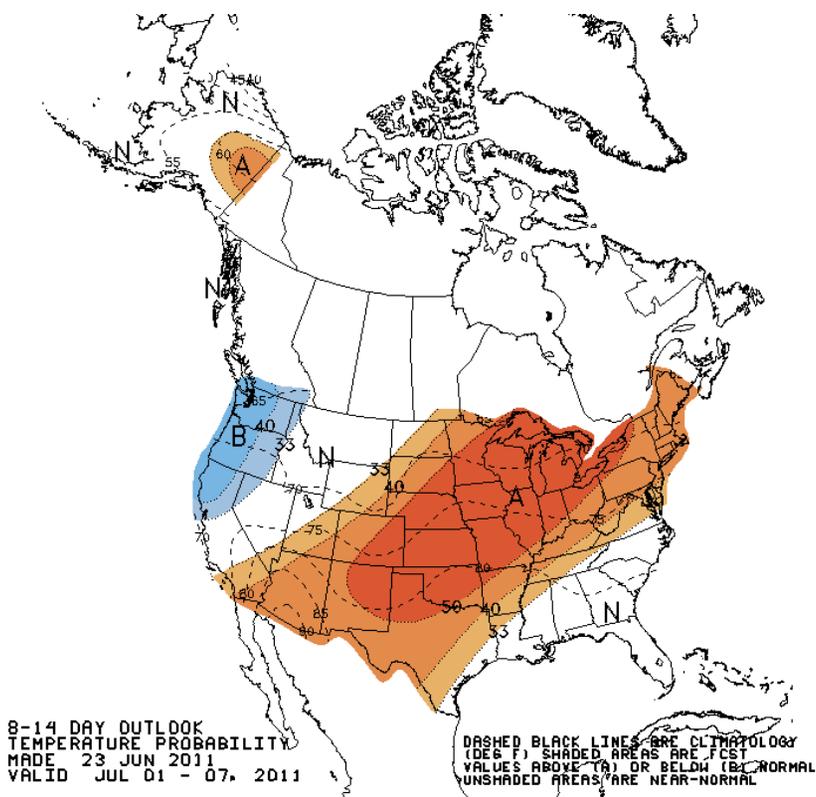
Overgeneration conditions in the Northwest

- When there was insufficient demand for generation in light load hours offered at zero cost, the following steps were implemented to meet the flow objective:
 - DSO 216 INC reserves reduced to 400 MW and DEC reserves reduced to 300 MW
 - Spill up to Level 1 Spill (120% TDG system-wide)
 - Implement Environmental Displacement/Redispatch
 - Continue to spill up to higher Spill Levels
- Environmental Displacement/Redispatch
 - All thermal generation within BPA's balancing authority was displaced to their minimum generation first.
 - ER implementation has displaced total 82,691 MW-hrs of wind generation since 5/18/11. ER was not implemented June 16 – 17 or June 20 – 22.
- 12-hour average TDG levels are 120% or higher across the FCRPS as measured in the tailrace with an exception of CHJ and LGS (~119%)
 - Use of Environmental Displacement/Redispatch was effective in minimizing the amount of TDG in the system
 - Links to TDG data can be found on BPA's Overgeneration webpage or the TMT website

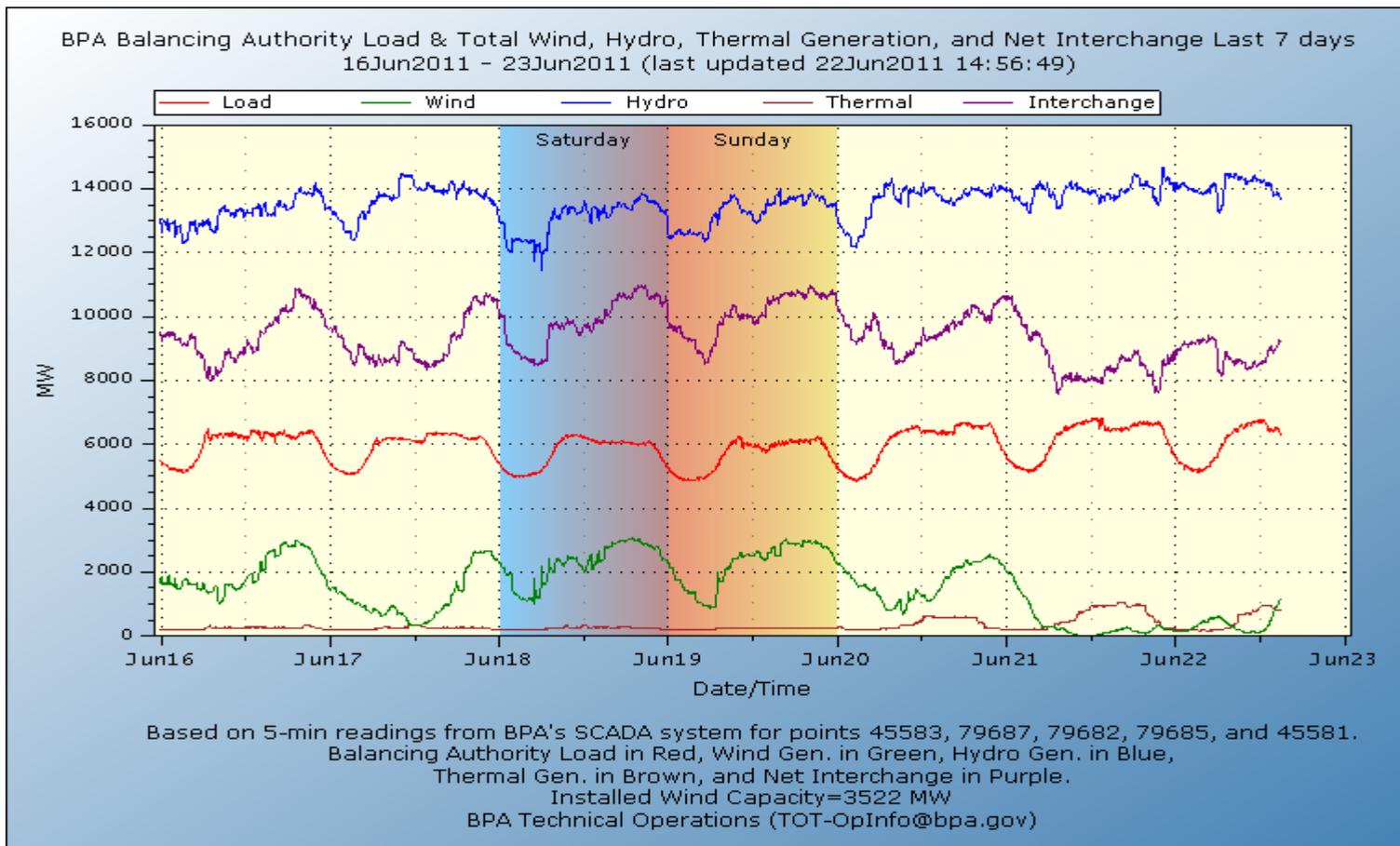
Actions to manage overgeneration

- Since 5/21 we have successfully acquired 13,191 MWh of load under the Mid-C Spill Exchange agreement.
- Positioning Banks Lake to have the maximum amount of pump load available.
- Have moved non-essential generator and transmission maintenance outages out of May and June.
- Environmental Redispatch has been used since May 18.
- Coordinated LLH spill on Dworshak and Willamette projects.

Weather and Streamflow



Balancing Authority Load and Total Wind, Hydro, and Thermal Generation



Transmission Updates

- COI N>S
 - 6/5 to 6/28: 4500 MW due to BPA - Big Eddy-Ostrander 1 500kv line/Ostrander-Troutdale 1 500kv line
 - 6/27: 2950 MW due to CISO - Round Mountain-Table Mountain 2 500kV Line
 - 6/28: 2950 MW due to CISO - Round Mountain-Table Mountain 1 500kV Line
 - 7/5: 3650 MW due to CISO - Malin-Round Mountain 2 500kV Line
 - 7/6: 3200 MW due to CISO - Malin-Round Mountain 1 500kV Line
 - 7/5 to 7/24: 4500 MW due to BPA - Buckley-Marion 1 500kV Line
- PDCI N>S
 - 2990 MW : Studied at rated capacity for various outages through next seven days.
- NI S>N
 - 1950 MW: Studied at rated capacity for various outages through next seven days.

Transmission Updates

- **COI + PDCI (N to S) Capacity Utilization (05/25– 06/23)**

All Hours: 78.2%

Heavy Load Only: 79.6%

Light Load Only: 76.6%

- **Northern Intertie (S to N) Capacity Utilization (05/25– 06/23)**

All Hours: 42.0%

Heavy Load Only: 30.6%

Light Load Only: 56.3%

***** Many hours in previous seven days with actual NI flows N to S*****

- **Montana-PNW Average Utilization (05/25– 06/23)**

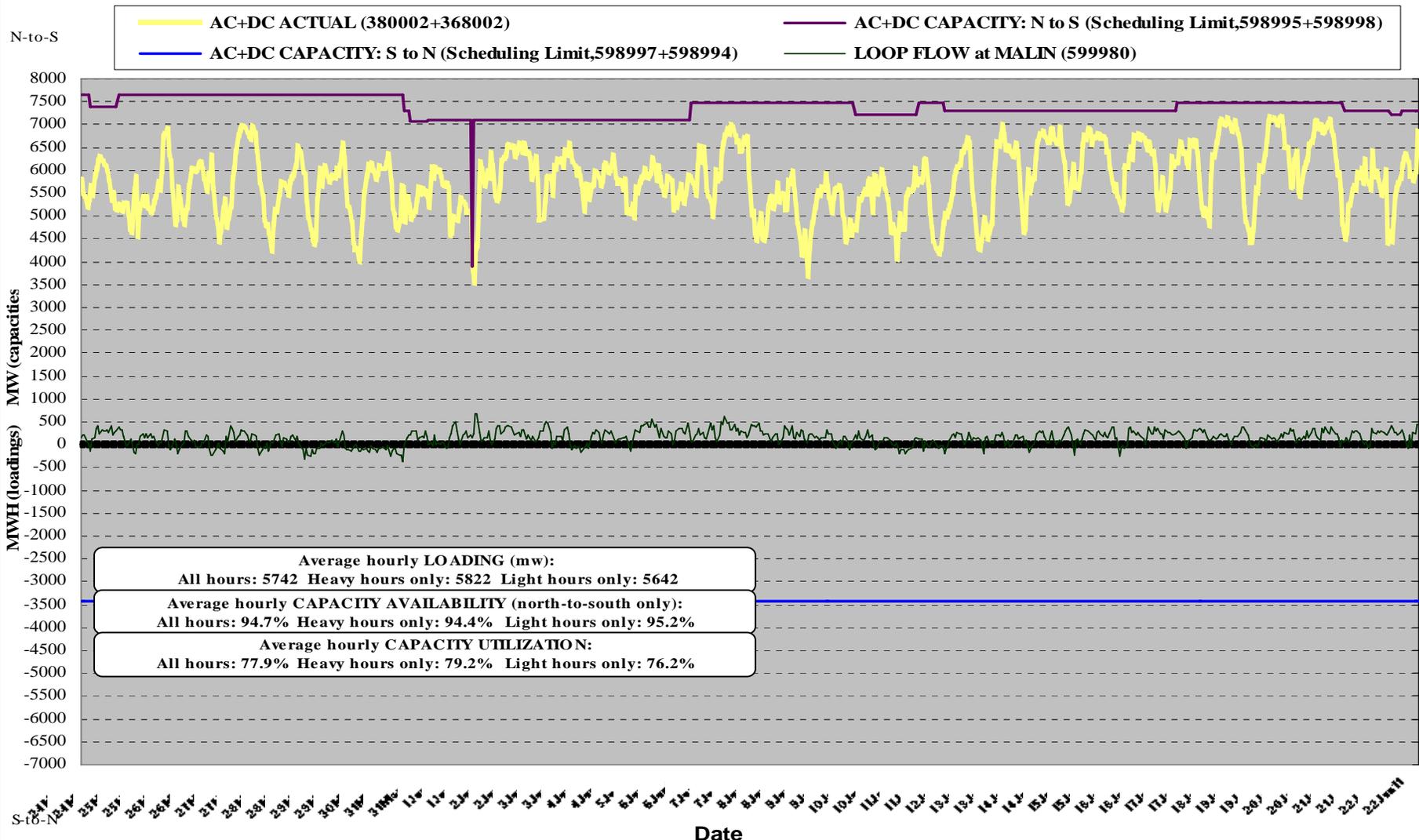
All Hours: 11 MW

Heavy Load Only: -78 MW

Light Load Only: 16 MW

The PNW is a net importer of energy from Montana

AC+DC INTERTIE AVAILABILITY & UTILIZATION: 24MAY11 - 22JUN11 (30 days) ACTUAL LOADINGS and CAPACITIES, BY HOUR

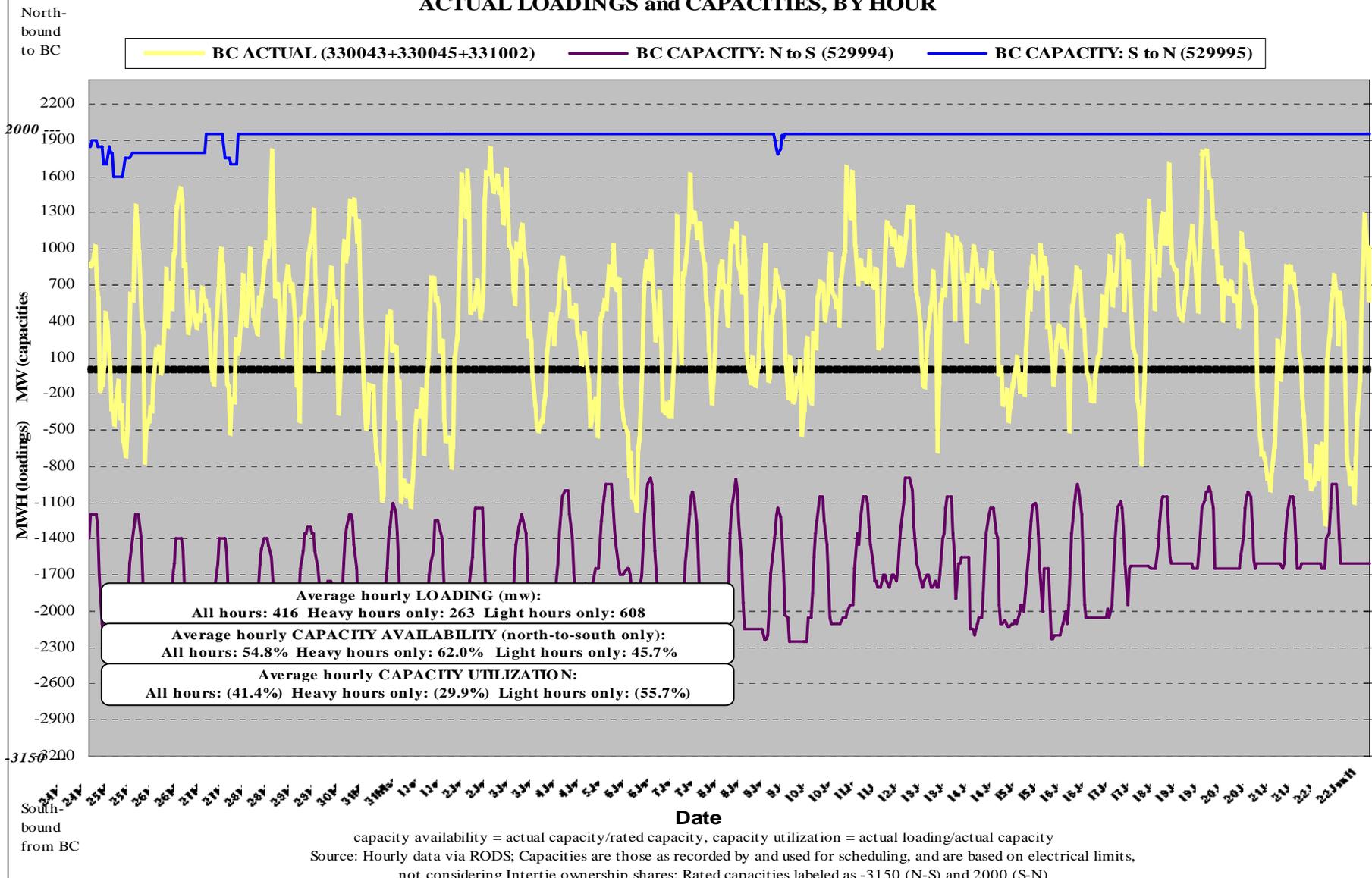


capacity availability = actual capacity/rated capacity, capacity utilization = actual loading/actual capacity
Source: Hourly data via RODS; Capacities are those at COB or NOB and reflect total path scheduling limit

Actuals may exceed scheduling limit as long as conditions remain within North-of-John-Day vs. COI & PDCI operating nomogram limits

BC INTERTIE (WEST+EAST) AVAILABILITY & UTILIZATION: 24MAY11 - 22JUN11 (30 days)

ACTUAL LOADINGS and CAPACITIES, BY HOUR



Contact Information

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- Overgeneration Web site:
<http://www.bpa.gov/corporate/AgencyTopics/ColumbiaRiverHighWaterMgmt/>