

System Condition Update

Spring Operations Review Forum

May 4, 2012

1:00 – 2:00 p.m.

To participate in the call please dial: **(877) 336-1839**

When prompted, enter access code: 1687421

Updated: 11:30 a.m. on May 4



**Celebrating 75 years of
serving the Northwest**

Hydro Operations Update

The Federal Columbia River Power System is being operated for system wide flood control objectives.

- Reservoir operations transitioned from drafting to refill on April 24.
- Operating the system for a flow of 375 - 420 kcfs at The Dalles, with a maximum elevation at Grand Coulee of 1240 ft on May 6.
- The NW River Forecast Center's April 30, January-July Water Supply Forecast at The Dalles is 120.1 million acre-feet.

Oversupply conditions in the Northwest

There was insufficient demand for the resulting generation in light load hours offered at zero cost, so the following steps were implemented to meet the flow objective:

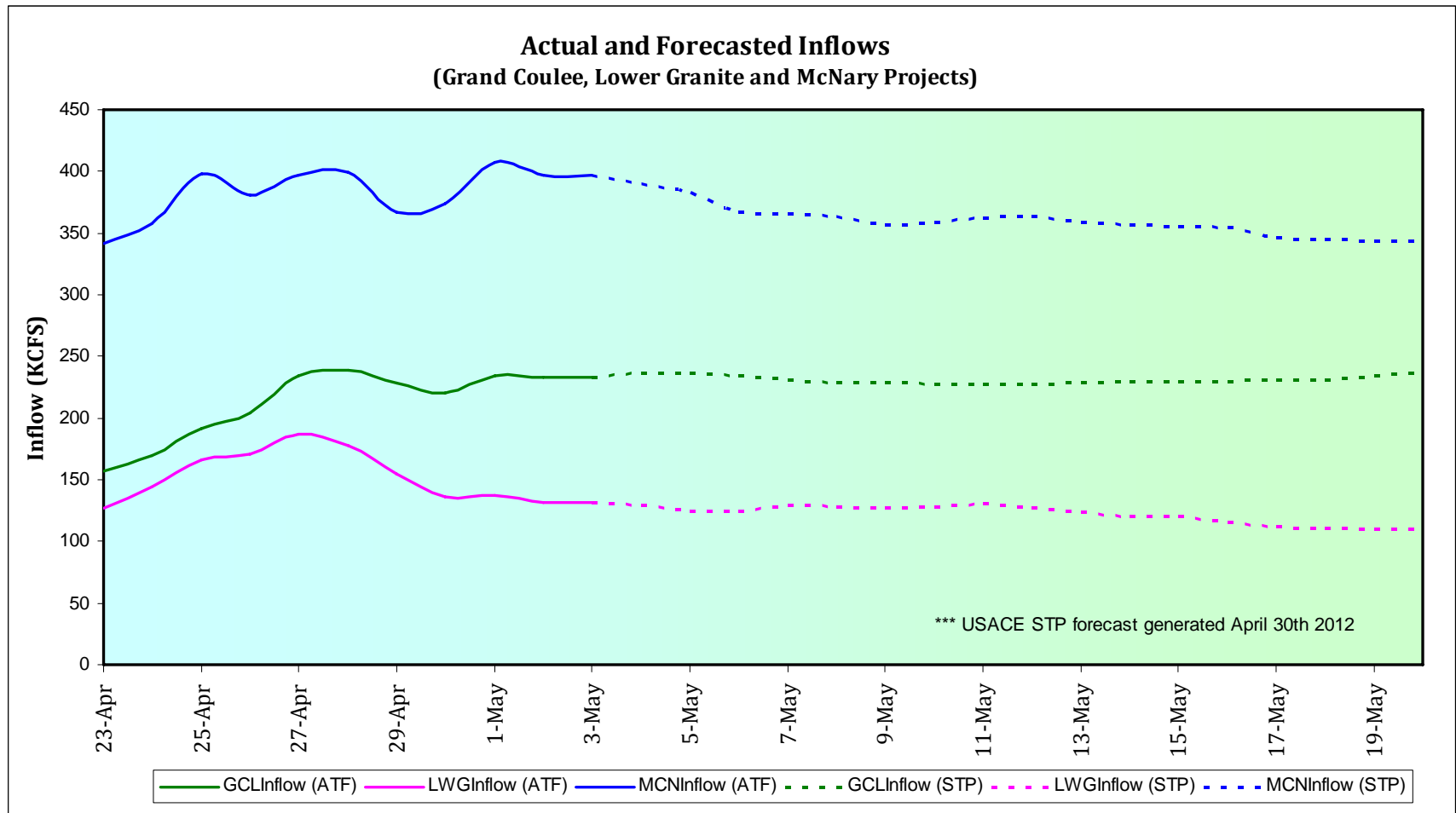
- DSO 216 INC reserves were reduced to 400 MW and DEC reserves reduced to 300 MW.
- Spill up to 12-hour average TDG of 120%
 - Links to TDG data can be found on BPA's Oversupply webpage on the TMT website. <http://www.bpa.gov/corporate/AgencyTopics/ColumbiaRiverHighWaterMgmnt/>.
- Oversupply Management Protocol (OMP)
 - Oversupply Management Displacement (OMD) – Small amounts of thermal generation (approximately 1,000 MW-hrs) within BPA's balancing authority were displaced first.
 - Oversupply Management (OSM) – Approximately 20,600 MW-hrs of wind generation have been displaced since April 29.

Use of OMP was effective in minimizing the amount of TDG in the system.

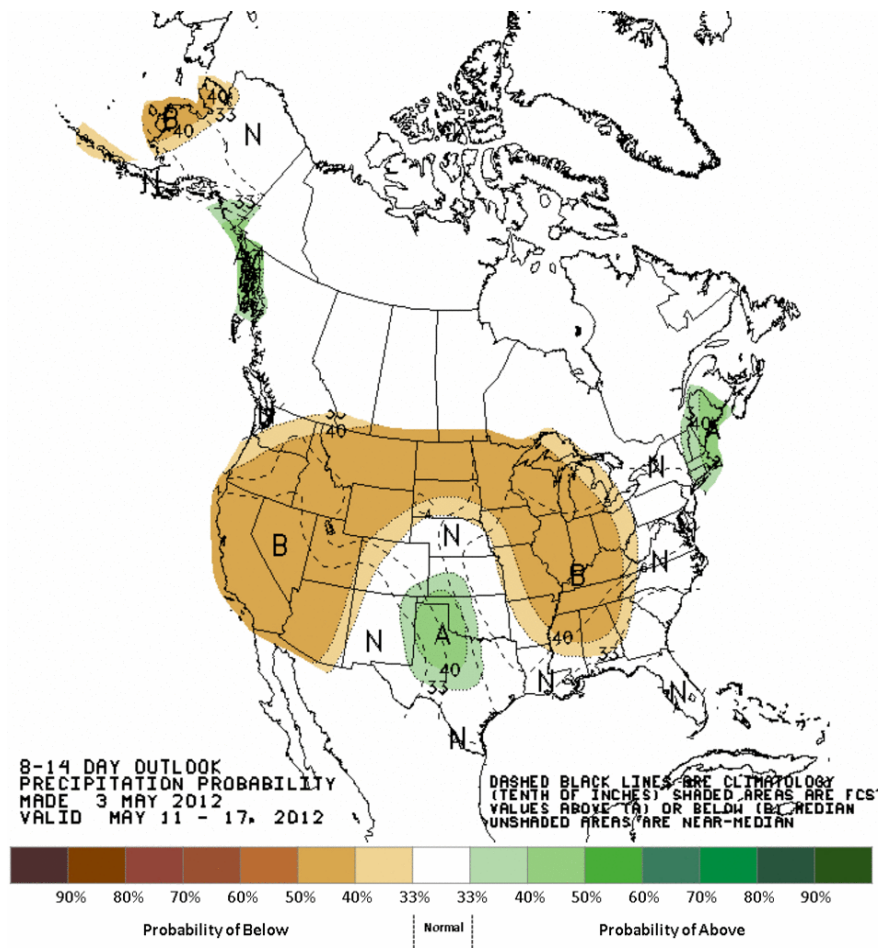
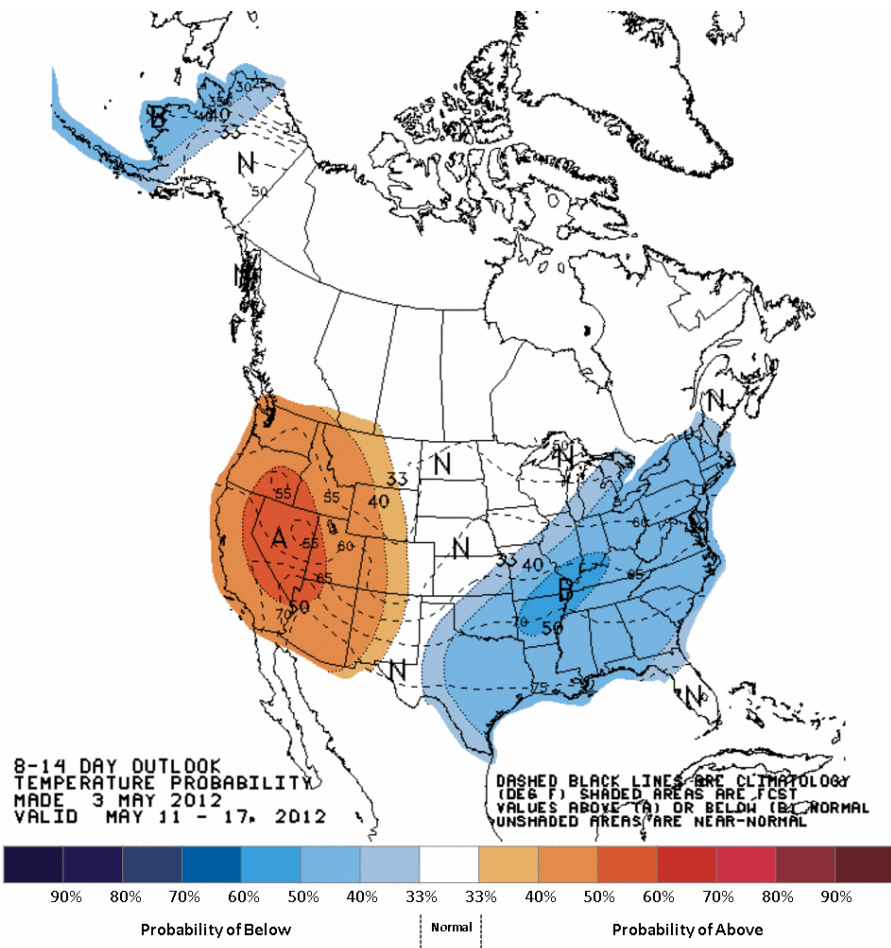
Actions to manage oversupply

- Last fall/winter BPA and BCH released water from non-treaty storage in Canada. That space is providing additional flexibility in managing flows. Although there have been no storage transactions yet this spring, the space created by the releases last fall/winter has allowed Arrow outflows to be lower than they would have been absent the Non-Treaty Storage agreement.
- As of May 2, BPA has acquired 66,260 MWh under the Mid-Columbia Spill Exchange agreement.
- Maximizing the amount of pump load.
- Have moved non-essential generator and transmission maintenance outages out of May and June.
- Coordinated spill on Willamette projects.
- CGS has been reduced to 85% during periods when it was helpful to minimize spill.
- Spill due to lack of demand.
- BPA has developed and is now using a new product that allows for recallable energy that is helping to reduce the amount of over-generation spill and OMP.
- INC/DEC reserves have been reduced occasionally this past week to manage TDG levels and reduce the chance of implementing OMP.
- There has been some displacement of thermal and wind generators over the past week in order to manage water quality.
- OMP was implemented on four nights this week. Please refer to the external website for further details.

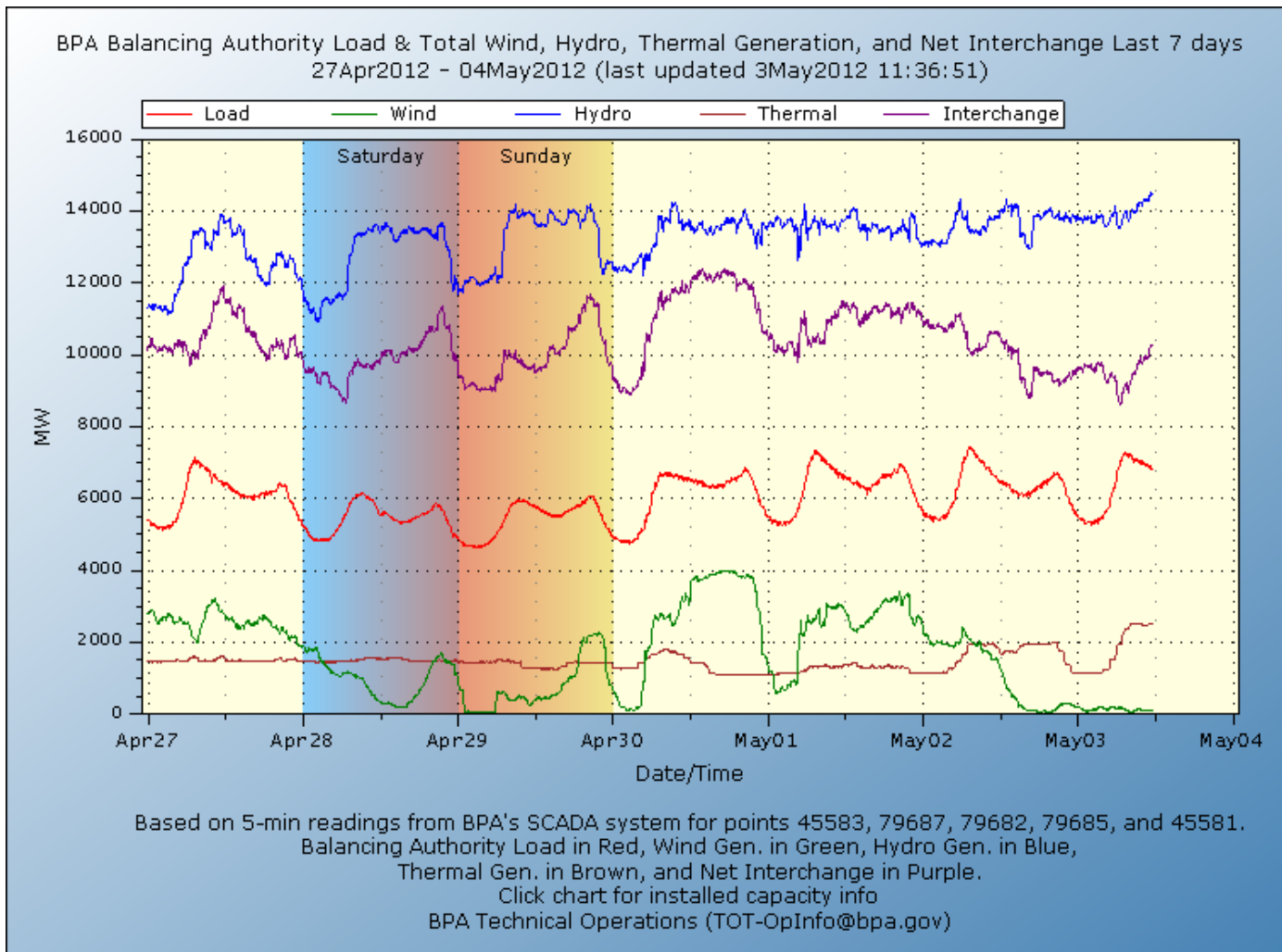
Actual and Forecasted Flows



Weather and Streamflow



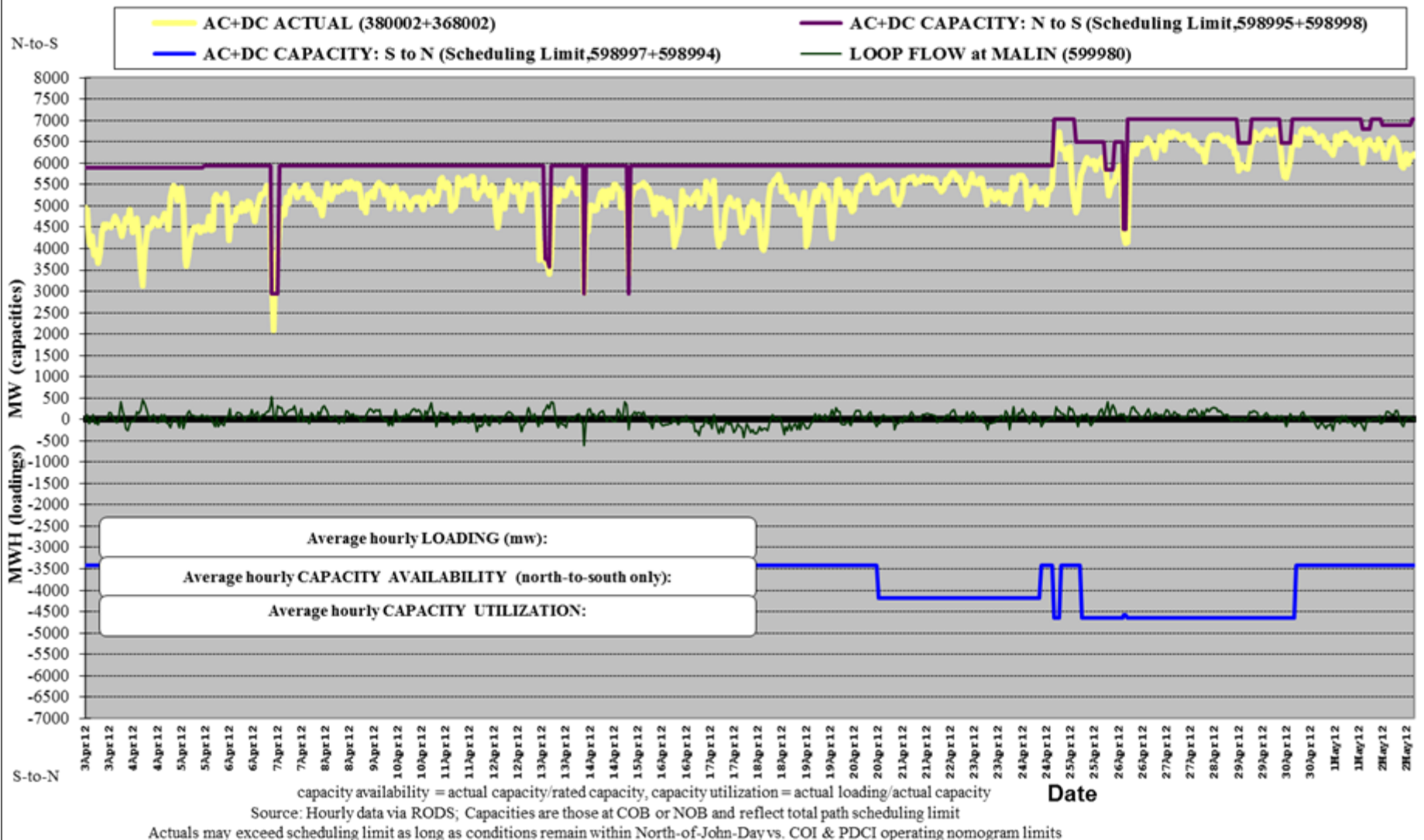
Balancing Authority Load and Total Wind, Hydro, and Thermal Generation



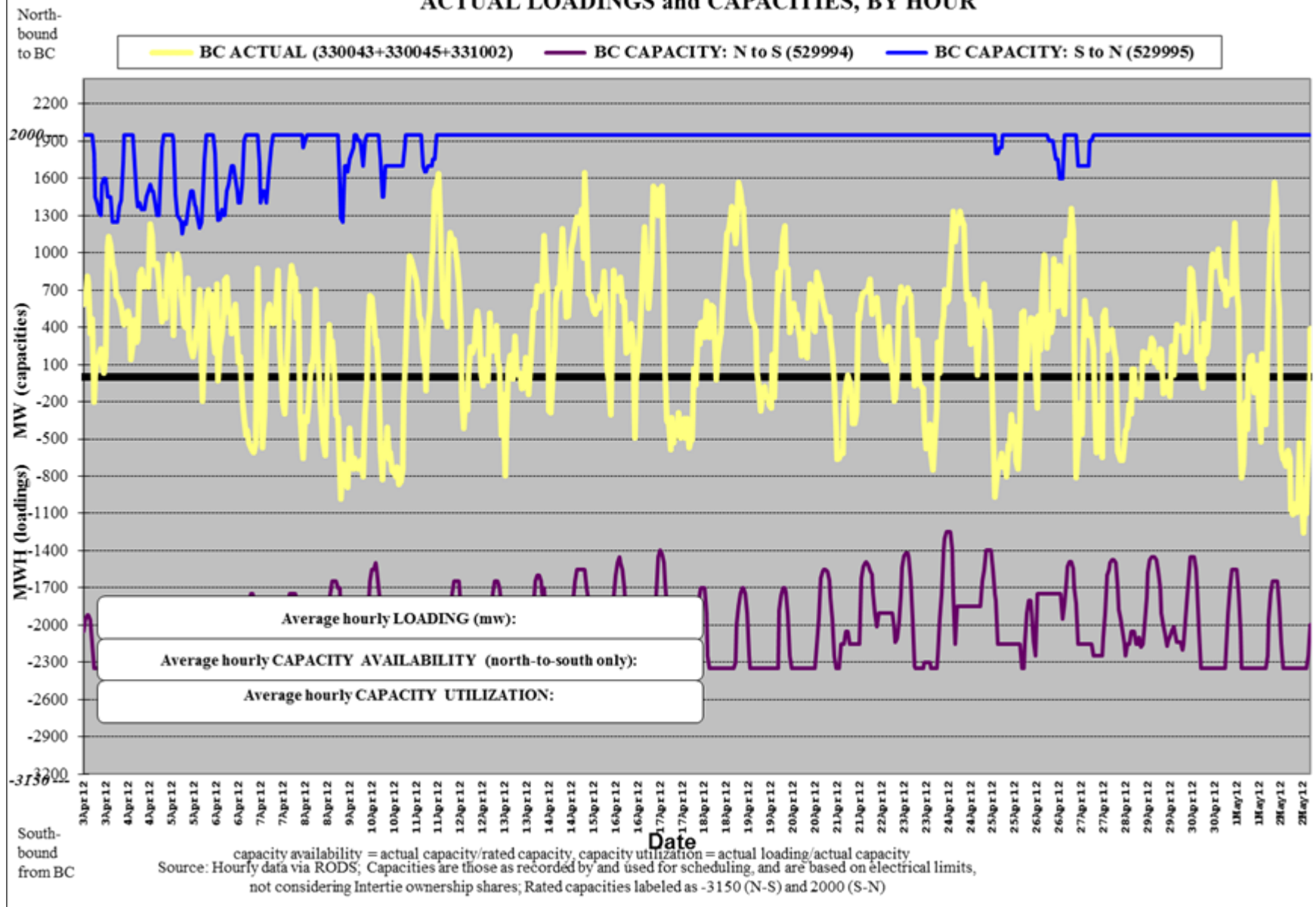
Transmission Updates

- **COI N>S**
 - 4050 MW: Through 6/1 due to CAISO Tracy-Los Banos 500kV Line.
 - 3700 MW: 5/7 to 5/24 due to CAISO Colgate-Rio Oso and Table Mountain-Rio Oso 230kV Line
- **PDCI N>S**
 - 2990 MW : At rated capacity next seven days.
- **NI S>N**
 - 1850 MW: 5/10 to 5/11 Preschedule forecasted capacity reduced due to Custer-Ingledow 500kV 1 Line.

AC+DC INTERTIE AVAILABILITY & UTILIZATION: 03APR12 - 02MAY12 (30 days) ACTUAL LOADINGS and CAPACITIES, BY HOUR



BC INTERTIE (WEST+EAST) AVAILABILITY & UTILIZATION: 03APR12 - 02MAY12 (30 days)
ACTUAL LOADINGS and CAPACITIES, BY HOUR



Contact Information

- To discuss within month commercial transactions, please contact Robert Johnson at (503) 230-3183, rcjohnson@bpa.gov.
- To discuss prompt month and forward transactions, please contact Alex Spain at (503) 230-5780, ajspain@bpa.gov or Mark Miller at (503) 230-5780, memiller@bpa.gov.
- For additional information on Oversupply, please contact:
Project Manager: Nita Burbank - (503) 230-3935, nmburbank@bpa.gov
Public Engagement: Maryam Asgharian - (503) 230-4413, maasgharian@bpa.gov
- Overgeneration website:
<http://www.bpa.gov/corporate/AgencyTopics/ColumbiaRiverHighWaterMgmt/>