System Condition Update

Spring Operations Review Forum July 20, 2012 1:00 – 2:00 p.m.

To participate in the call please dial: **(877) 336-1839** When prompted, enter access code: 1687421



Hydro Operations Update

- Reservoir operations have transitioned to operating for flood mitigation and temperature control.
 - Grand Coulee is currently operating in the top foot and spilling passed fully loaded turbines to pass inflow.
 - All storage projects are, or are very near, full.
 - Many projects are still operating fuller than usual max storage ranges in order to mitigate flooding downstream.
 - Sustained river flows in Canada are at or near record levels.
- Maximum discharge at The Dalles of 450 kcfs.
- The NW River Forecast Center's July 16, January-July Water Supply Forecast at The Dalles is 130.2 million acre-feet.
- Oversupply Management Protocol was implemented this week. To date, approximately 46,600 MW-hrs of wind generation have been displaced. Please refer to the external website for further details.



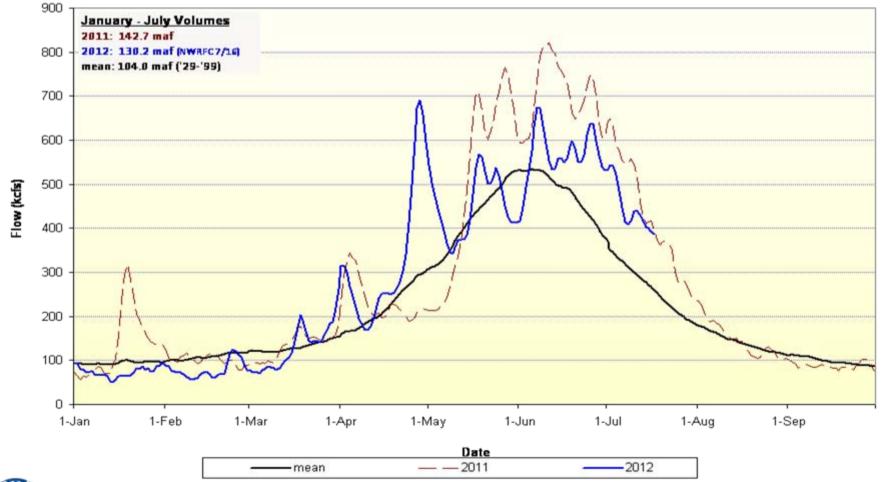
Actions to manage oversupply

- Last fall/winter BPA and BC Hydro released water from non-treaty storage in Canada. 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. BPA and BCH stored nearly 2.8 Maf under this agreement between May 26 July 15 to be released in August/September.
- As of June 14, BPA has acquired 66,260 MWh under the Mid-Columbia Spill Exchange agreement.
- Maximizing the amount of pump load.
- Coordinated spill on Willamette projects when possible within TDG limits.
- CGS has been reduced to 85% during periods when it was helpful to minimize spill.
- Spill due to lack of demand whenever possible within water quality standards.
- INC/DEC reserves have been occasionally reduced to manage to system operational objectives this Spring.
- Recallable energy is being used to reduce the amount of over-generation spill and OMP.



Weather and Streamflow

Natural Flows at The Dalles





Weather and Streamflow

Volume remaining at selected sites (kAF)

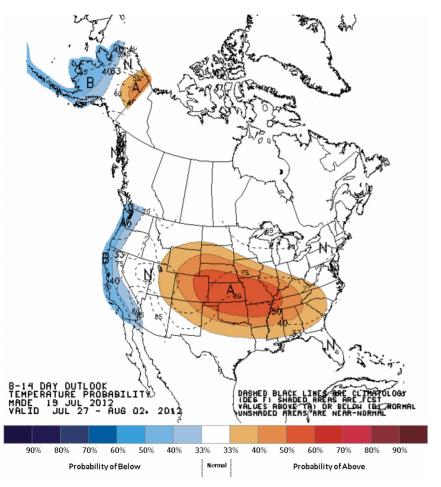
Runoff-processor date: Jul 17 RFC Volume Forecast: Jul 16

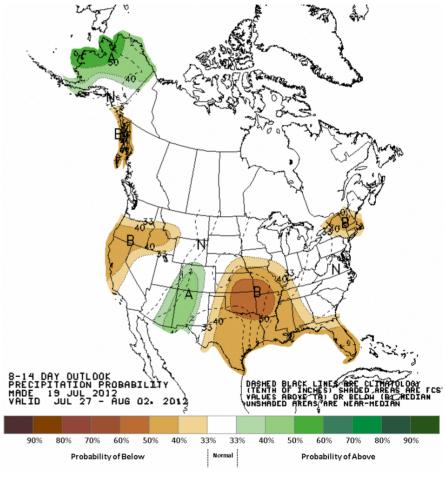
	<i>Jul 16</i>	<i>Jul 17</i>	
	NWRFC	Observed	Percent
January-July	ESP volcast	Since 1-Jan	Remaining
Grand Coulee	81,463	74,201	8.9%
Lower Granite	30,065	29,196	2.9%
The Dalles	130,202	121,309	6.8%

	NWRFC	Observed	Percent
April-August	ESP volcast	Since 1-Apr	Remaining
Grand Coulee	83,103	66,642	19.8%
Lower Granite	24,490	22,025	10.1%
The Dalles	122,529	101,845	16.9%



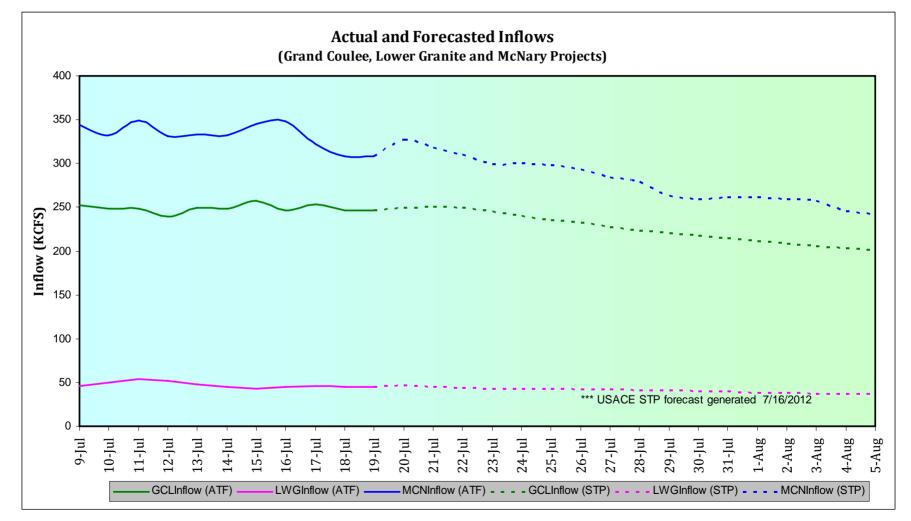
Weather and Streamflow





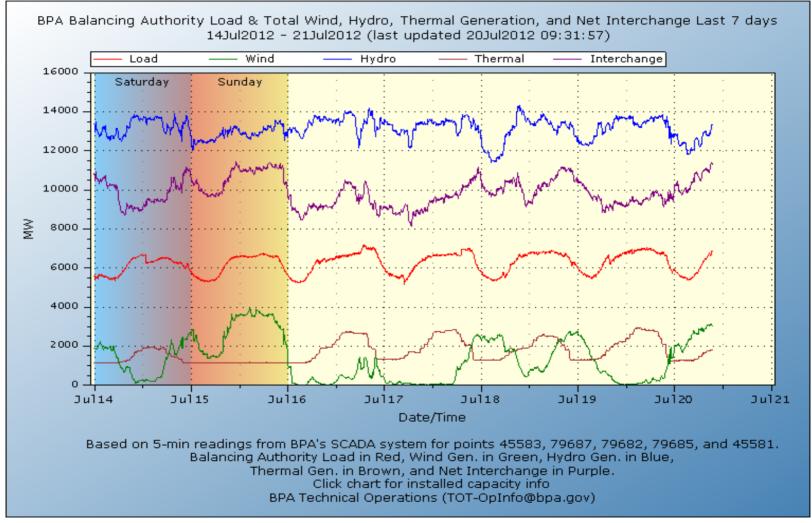


Actual and Forecasted Flows





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





Transmission Updates

COI N>S

4500 MW: 7/07 HE 08 to 7/22 HE 16 due to BPA Marion-Lane 1 500 kV line.

• 4225 MW: 7/18 HE 08 to 7/18 HE 17 due to CISO Table Mountain-Cottonwood

3 230 kV line.

7/23 HE 10 to 7/27 HE 15 due to BPA-Sand Springs: Grizzly-Summer • 4400 MW:

Lake 1 500kV Line Series Capacitor Group 3.

7/24 HE 07 to 7/25 HE 18 due to CISO-Table Mountain-Vaca 500kV 4325 MW:

Series Capacitor 3 at Table Mountain.

7/24 HE 07 to 7/24 HE 17 due to CISO-Round Mountain-Cottonwood 3 4225 MW:

230kV Line and Cottonwood PCB 292.

4200 MW: 7/24 HE 09 to 7/24 HE 20 due to BPA-Sand Springs: Grizzly-Summer

Lake 1 500kV Line Series Capacitor Group 3; BPA-Rock Creek-John Day 1 500kV Line; and BPA-Wautoma-Rock Creek 1 500kV Line.

4050 MW: 7/26 HE 06 to 7/26 HE 18 due to CISO-Tesla-Los Banos 1 500kV Line.

PDCI N>S

2990 MW: At rated capacity next seven days.

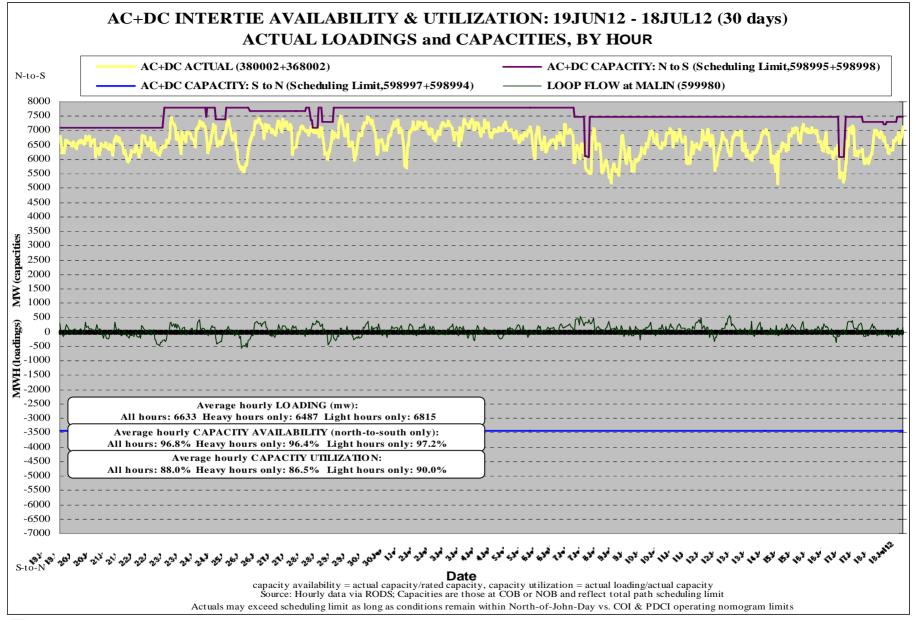
NI S>N

• ~900 MW: 7/23 HE08 to 8/03 HE 16 due to BPA-Chief Joseph-Monroe 1 500kV

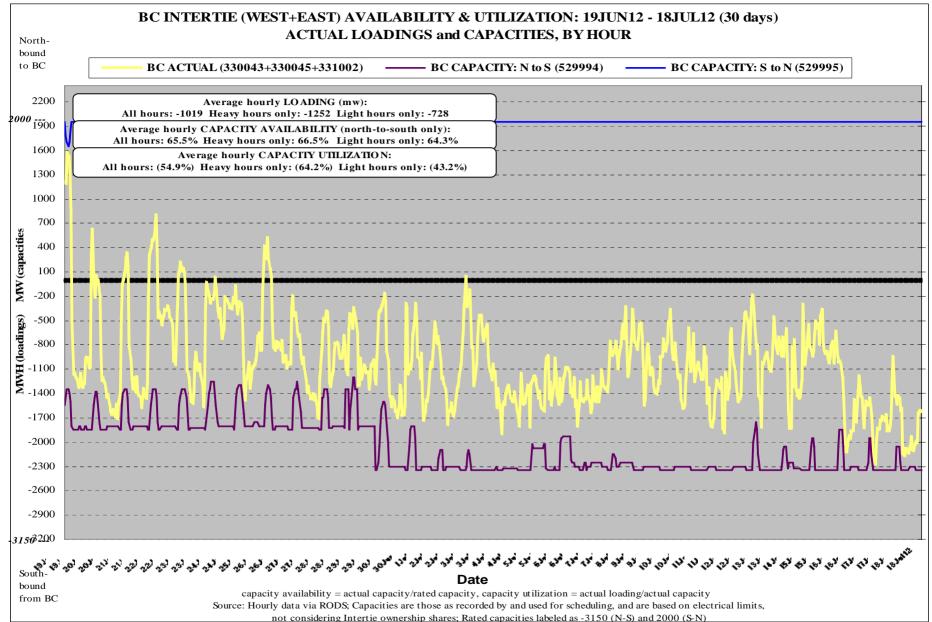
Line and various other combination of outages. Prescheduled

forecasted capacity between 750 MW and 1250 MW.











Contact Information

- To discuss within month commercial transactions, please contact Robert Johnson at (503) 230-3183, rejohnson@bpa.gov.
- To discuss prompt month and forward transactions, please contact Alex Spain at (503) 230-5780, <u>ajspain@bpa.gov</u> or Mark Miller at (503) 230-5780, <u>memiller@bpa.gov</u>.
- 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/ColumbiaRiverHighWaterMgmnt/

