

Glen Canyon Dam Adaptive Management Work Group
Agenda Item Information
May 18, 2011

Agenda Item

WY 2012 Hydrograph Development

Action Requested

Feedback is requested from AMWG members.

Presenter

Dave Trueman, Resources Management Division Manager, Upper Colorado Region, Bureau of Reclamation

Previous Action Taken

N/A

Relevant Science

N/A

Background Information

Reclamation will present an analysis for use by the AMWG in developing a recommendation, in conjunction with the other GCDAMP federal agencies, for the 2012 Hydrograph. This will include results of sand retention modeling and financial analysis for a range of operational scenarios.

The federal work group has proposed and evaluated numerous different combinations of hydrologic and operational scenarios. The final three operational scenarios will be analyzed against three different hydrologic tests. These include an “average” release that does not vary from 9.3 maf throughout the year. The other two hydrologic tests are designed to stress the operational scenarios with late season changes (both up and down).

The operational scenarios include:

- (1) 2011 Hydrograph criteria (+100/-100 kaf with 16/22 kcfs limits);
- (2) 2011 Variant (+100/-150 kaf with 16/22 kcfs limits) is a variant of the 2011 Hydrograph which allows less water to be released earlier in the year to conserve water in case releases drop to 8.23 maf (more probable in 2012 than 2011);
- (3) Targeted approach which would attempt to constrain releases in August-October to preserve new sediment inputs for a fall HFE.