



United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



IN REPLY REFER TO: MT-450

October 13, 2010

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6400
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Jim Staebler

From: Reservoir and River Operations, Billings, Montana

Subject: **Yellowtail Water Release Order - BHR No. 11-05**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3628.18 Storage: 942,387 acre-feet; River Release: 2,500 cfs; Inflow: 2,275 cfs;

GENERAL COMMENTS:

In preparation for the installation of a floating water intake structure within the Afterbay scheduled on October 14, there appears to be some anomalies in the river stage as regulated by the automated gate control system. To maintain the river gage height near elevation 3161.70 and using a current -1.80 shift ($\approx 2,370$ cfs), the following operation is required at Yellowtail Dam and Powerplant and Yellowtail Afterbay.

YELLOWTAIL TURBINE RELEASE:

At 1630 hour on Wednesday, October 13, 2010:

Decrease average daily turbine release to 2,300 cfs ($\approx 1,865$ MW-Hrs/day using 29.6 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1630 hour on Wednesday, October 13, 2010:

Maintain diversions to the Bighorn Canal at 0 cfs.

Decrease river release to 2870 cfs - 500 = 2,370 cfs.

Decrease total release from the Afterbay to 2,870 cfs - 500 cfs = 2,370 cfs.

SPECIAL AFTERBAY OPERATION REQUIREMENT:

During 0700-1900 hour on Thursday, October 14, 2010:

Make every effort to maintain the level of the Afterbay between elevations 3173 and 3175 during the above installation of the water intake structure in the Afterbay.

Special Note of Attention:

At 1200 hour on October 13, all releases to the Bighorn River shall be released through the Afterbay sluiceway gates and shall continue through 0800 hour on Friday, October 15. No water will be released through the Afterbay Dam radial gates during this time.

/S/ Tim H. Felchle