

United States Department of the Interior

BUREAU OF RECLAMATION

TAKE PRIDE'

Great Plains Region Montana Area Office P.O. Box 30137 Billings, Montana 59107-0137

September 18, 2006

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To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota

Attention: F-6001

FAXOGRAM: Water Order Change

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. 06-41

CURRENT RESERVOIR CONDITIONS:

Elevation: 3599.84; Storage: 743,701 acre-feet; River Release: 1,500 cfs; Inflow: 2,920 cfs;

GENERAL COMMENTS:

Due to the recent rains, the BIA has requested an decrease in diversions to the Bighorn Canal. In response, the following operation changes are required at Yellowtail Dam and Powerplant.

NOTE: This is the time period when fish are more susceptible to high levels of nitrogen gas super-saturation. To provide a more desirable mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates to maintain the total gas super-saturation levels at safe limits, the minimum Afterbay elevation should be maintained at or above elevation 3183 whenever possible. This is only a soft limit and may be deviated from during special or emergency operations.

TURBINE RELEASES:

Beginning at 0830 hour on Monday, September 18, 2006:

Decrease average daily turbine release to 1,665 cfs (\approx 1,048 MW-Hrs/day using 38.1 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

Beginning at 0830 hour on Monday, September 18, 2006:

Decrease diversions to the Bighorn Canal to 235 cfs (gage height = 73.34 using a shift of -0.81). Maintain river release at 1,500 cfs (gage height = 60.08 using shift of -1.01). Decrease total release from the Afterbay to 1,735 cfs.