

United States Department of the Interior

BUREAU OF RECLAMATION

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MT-450

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

December 22, 2008

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. 09-12

CURRENT RESERVOIR CONDITIONS:

Elevation: 3634.50; Storage: 1,005,578 acre-feet; River Release: 2,450 cfs; Inflow: 1,130 cfs;

GENERAL COMMENTS:

Algae growth in the Bighorn River continues to break up and decrease. Power generation indicates actual river flows are slightly higher than anticipated. To adjust for the variation in flows, the following operation change is required at Yellowtail Dam and Powerplant.

NOTE: This is the time period when fish are less affected by high levels of nitrogen gas super-saturation. Since mixing flows through the spillway gates and the sluice gates is not required at this time, it is still desirable to provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates whenever the level of the Afterbay allows for flows to be released through the spillway gates.

YELLOWTAIL TURBINE RELEASE:

At 1600 hour on Monday, December 22, 2008:

Maintain average daily turbine release at \approx 2,380 cfs (\approx 1,575 MW-Hrs/day using 36.3 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1600 hour on Monday, December 22, 2008:

Maintain diversions to the Bighorn Canal at 0 cfs (gage height = 69.34 with -0.84 shift). Maintain river release at 2,450 cfs (decrease gage height to 60.16 & apply new shift of -0.20). Maintain total release from the Afterbay at 2,450 cfs.