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United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



January 9, 2009

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. 09-14**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3632.17; Storage: 981,030 acre-feet; River Release: 2,450 cfs; Inflow: 1,350 cfs;

GENERAL COMMENTS:

Algae growth in the Bighorn River continues to break up and decrease. Recent streamflow measurements indicate actual river flows are 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 0800 hour on Monday, January 12, 2009:

Maintain average daily turbine release at $\approx 2,380$ cfs ($\approx 1,705$ MW-Hrs/day using 33.5 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0800 hour on Monday, January 12, 2009:

*Maintain diversions to the Bighorn Canal at 0 cfs (gauge height = 69.34 with -0.84 shift).
Maintain river release at 2,450 cfs (decrease gauge height to 60.01 & apply new shift of -0.05).
Maintain total release from the Afterbay at 2,450 cfs.*

/S/ Tim H. Felchle