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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



August 14, 2006

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. 06-34**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3600.95; Storage: 749,844 acre-feet; River Release: 1,500 cfs; Inflow: 1,060 cfs;

GENERAL COMMENTS:

Recent flow measurements indicates actual river and canal flows are different than anticipated. To adjust for the variation in flows and continue conserving storage in Bighorn Lake, the following operation change is 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:

At 1000 hour on Monday, August 14, 2006:

Decrease average daily turbine release to 1,865 cfs (\approx 1,225 MW-Hrs/day using 36.5 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1000 hour on Monday, August 14, 2006:

Decrease diversions to the Canal to 435 cfs (maintain gage height at 74.32 with a of shift -0.28).

Maintain river release at 1,500 cfs (decrease gage height to 59.30 with a shift of -0.23).

Decrease total release from the Afterbay to 1,935 cfs.

/S/ Tim H. Felchle