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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



May 26, 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. 06-21**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3608.30; Storage: 792,629 acre-feet; River Release: 2,250 cfs; Inflow: 5,720 cfs;

GENERAL COMMENTS:

Due to a leakage on the Bighorn Canal near Rotten Grass Creek, the BIA called and requested a 300 cfs reduction in diversions to the Bighorn Canal to allow for maintenance work. As a result, 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 1300 hour on Friday, May 26, 2006:

Decrease average daily turbine release to 2,380 cfs ($\approx 1,580$ MW-Hrs/day using 36.1 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1300 hour on Friday, May 26, 2006:

Decrease diversions to the Bighorn Canal to 200 cfs (gage height = 72.22 with 0.0 shift).

Maintain river release at 2,250 cfs (gage height = 60.29 with a shift of -0.49).

Decrease total release from the Afterbay to 2,450 cfs.

/S/ Tim H. Felchle