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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



July 12, 2007

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
Area 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. 07-31**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3636.45; Storage: 1,027,324 acre-feet; River Release: 1,750 cfs; Inflow: 1,070 cfs;

GENERAL COMMENTS:

The BIA has requested an increase in diversions to the Bighorn Canal. In response, 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 1100 hour on Thursday, July 12, 2007:

Increase average daily turbine release to 2,160 cfs (\approx 1,470 MW-Hrs/day using 35.2 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1100 hour on Thursday, July 12, 2007:

Increase diversions to Bighorn Canal to 480 cfs (gage height = 74.77 with new shift of -0.45).

Maintain river release at 1,750 cfs (gage height = 59.42 with a shift of -0.08).

Increase total release from the Afterbay to 2,230 cfs.

/S/ Tim H. Felchle