



IN REPLY REFER TO: MT-450

United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



July 2, 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. 08-34**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.54; Storage: 1,064,269 acre-feet; River Release: 6,125 cfs; Inflow: 8,100 cfs;

GENERAL COMMENTS:

The BIA called and requested a reduction in diversions to the Bighorn Canal. In response, the following operation change is required at Yellowtail Dam and Bighorn Lake.

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.

YELLOWTAIL TURBINE RELEASE:

At 1500 hour on Wednesday, July 2, 2008:

Maintain average daily turbine release to $\approx 6,530$ cfs ($\approx 5,190$ MW-Hrs/day using 30.2 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1500 hour on Wednesday, July 2, 2008:

Decrease diversions to the Bighorn Canal to 375 cfs (gage height = 73.63 with 0.0 shift).

Increase release to the Bighorn River to 6,225 cfs (gage height = 62.17 & apply shift of 0.08).

Maintain total release from the Afterbay at 6,600 cfs.

/S/ Tim H. Felchle