



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



November 4, 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. 10-11**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.30; Storage: 1,061,290 acre-feet; River Release: 3,000 cfs; Inflow: 2,450 cfs;

GENERAL COMMENTS:

Based on the November 1 water supply forecast, the following operation change is required at Yellowtail Dam and Powerplant, to evacuate storage in Bighorn Lake as planned.

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 1600 hour on Thursday, November 5, 2009:

Maintain average daily turbine release at $\approx 2,705$ cfs ($\approx 1,765$ MW-Hrs/day using 36.8 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1600 hour on Thursday, November 5, 2009:

Maintain diversions to the Bighorn Canal at 0 cfs.

Decrease river release to 2,775 cfs (gage height = 60.70 using shift of -0.48).

Decrease total release from the Afterbay to 2,775 cfs.

/S/ Tim H. Felchle