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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



October 31, 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. 07-49**

### **CURRENT RESERVOIR CONDITIONS:**

Elevation: 3633.19; Storage: 991,591 acre-feet; River Release: 1,750 cfs; Inflow: 1,565 cfs;

### **GENERAL COMMENTS:**

Power generation indicates river flows are actually lower than anticipated. In response, the following operation change is required at Yellowtail Dam and powerplant.

**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 through 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 the flows to be released through the spillway gates.

### **TURBINE RELEASES:**

**At 1800 hour on Wednesday, October 31, 2007:**

*Maintain average daily turbine release at 1,680 cfs ( $\approx$  828 MW-Hrs/day using 48.7 cfs/mw).*

### **AFTERBAY RELEASE AND OPERATION:**

**At 1800 hour on Wednesday, October 31, 2007:**

*Maintain diversions to Bighorn Canal at 0 cfs.*

*Maintain river release at 1,750 cfs (increase gage height to 60.30 & apply new shift of -0.96).*

*Maintain total release from the Afterbay at 1,750 cfs.*

/S/ Tim H. Felchle