

# United States Department of the Interior

# BUREAU OF RECLAMATION

Great Plains Region
Montana Area Office
P.O. Box 30137
Billings, Montana 59107-0137



LY REFER TO: MT-450

May 25, 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. 06-19

#### **CURRENT RESERVOIR CONDITIONS:**

Elevation: 3607.41; Storage: 787,198 acre-feet; River Release: 2,500 cfs; Inflow: 6,760 cfs;

# **GENERAL COMMENTS:**

Actual inflow to Bighorn Lake are lower than earlier forecasted. To conserve storage and better assure the reservoir of filling to desired reservoir levels, the following operation changes are 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 1800 hour on Thursday, May 25, 2006:

Decrease average daily turbine release to 2,680 cfs ( $\approx$  1,780 MW-Hrs/day using 36.1 cfs/mw).

# **AFTERBAY RELEASE AND OPERATION:**

### At 1800 hour on Thursday, May 25, 2006:

Maintain diversions to the Bighorn Canal at 500 cfs (gage height = 74.44 with 0.0 shift). Decrease river release to 2,250 cfs (gage height = 60.29 with a shift of -0.49). Decrease total release from the Afterbay to 2,750 cfs.