

United States Department of the Interior

BUREAU OF RECLAMATION

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



May 22, 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 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. 07-19

CURRENT RESERVOIR CONDITIONS:

Elevation: 3622.85; Storage: 896,202 acre-feet; River Release: 1,500 cfs; Inflow: 3,750 cfs;

GENERAL COMMENTS:

Due to recent rains, the BIA has requested that the increase to the canal previously scheduled for Thursday, May 24, at 1600 be cancelled. As a result, 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 0800 hour on Wednesday, May 23, 2007:

Increase average daily turbine release to 1,630 cfs (\approx 970 MW-Hrs/day using 40.3 cfs/mw).

At 0800 hour on Thursday, May 24, 2007:

Increase average daily turbine release to 1,680 cfs (\approx 1,000 MW-Hrs/day using 40.3 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0800 hour on Wednesday, May 23, 2007:

Increase diversions to the Bighorn Canal to 200 cfs (gage height = 72.21 with 0.0 shift). Maintain river release at 1,500 cfs (gage height = 59.15 with a shift of -0.08). Increase total release from the Afterbay to 1,700 cfs.

At 0800 hour on Thursday, May 24, 2007:

Increase diversions to the Bighorn Canal to 250 cfs (gage height = 72.66 with 0.0 shift). Maintain river release at 1,500 cfs (gage height = 59.15 with a shift of -0.08). Increase total release from the Afterbay to 1,750 cfs.

/S/ Tim H. Felchle