

United States Department of the Interior

BUREAU OF RECLAMATION

TAKE

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

June 27, 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: Ĵim Staebler

From: Reservoir and River Operations, Billings, Montana

Subject: Yellowtail Water Release Order - BHR No. 07-27

CURRENT RESERVOIR CONDITIONS:

Elevation: 3638.22; Storage: 1,048,112 acre-feet; River Release: 1,750 cfs; Inflow: 1,929 cfs;

GENERAL COMMENTS:

To meet downstream irrigation demands, the BIA has requested a 100 cfs increase in diversions to the Bighorn Canal. In response, 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 0900 hour on Wednesday, June 27, 2007:

Increase average daily turbine release to 2,030 cfs (\approx 1,233 MW-Hrs/day using 39.5 cfs/mw).

At 1600 hour on Wednesday, June 27, 2007:

Increase average daily turbine release to 2,080 cfs (\approx 1,264 MW-Hrs/day using 39.5 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0900 hour on Wednesday, June 27, 2007:

Increase diversions to the Bighorn Canal to 350 cfs (gage height = 73.45 with 0.0 shift). Maintain river release at 1,750 cfs (gage height = 59.42 with a shift of -0.08). Increase total release from the Afterbay to 2,100 cfs.

At 1600 hour on Wednesday, June 27, 2007:

Increase diversions to the Bighorn Canal to 400 cfs (gage height = 73.80 with 0.0 shift). Maintain river release at 1,750 cfs (gage height = 59.42 with a shift of -0.08). Increase total release from the Afterbay to 2,150 cfs.

/S/ Tim H. Felchle