

United States Department of the Interior

BUREAU OF RECLAMATION

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

R TO: MT-450

June 27, 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. 06-29

CURRENT RESERVOIR CONDITIONS:

Elevation: 3614.22; Storage: 831,212 acre-feet; River Release: 2,250 cfs; Inflow: 1,830 cfs;

GENERAL COMMENTS:

To meet increased irrigation demands, the BIA has requested an increase in diversions to the Bighorn Canal. A de-mossing operation has also been scheduled in the canal, requiring changes in operations. 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 1400 hour on Tuesday, June 27, 2006:

Increase average daily turbine release to 2,630 cfs (\approx 1,950 MW-Hrs/day using 32.4 cfs/mw).

At 1400 hour on Wednesday, June 28, 2006:

Increase average daily turbine release to 2,580 cfs (\approx 1,910 MW-Hrs/day using 32.4 cfs/mw).

At 0730 hour on Thursday, June 29, 2006:

Increase average daily turbine release to 2,530 cfs (\approx 1,875 MW-Hrs/day using 32.4 cfs/mw).

At 1600 hour on Thursday, June 29, 2006:

Increase average daily turbine release to 2,630 cfs (\approx 1,950 MW-Hrs/day using 32.4 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1400 hour on Tuesday, June 27, 2006:

Increase diversions to the Bighorn Canal to 450 cfs (gage height = 74.37 with -0.24 shift). Maintain river release at 2,250 cfs (gage height = 60.29 with a shift of -0.49). Increase total release from the Afterbay to 2,700 cfs.

At 1400 hour on Wednesday, June 28, 2006:

Decrease diversions to the Bighorn Canal to 400 cfs (gage height = 74.04 with -0.24 shift). Maintain river release at 2,250 cfs (gage height = 60.29 with a shift of -0.49). Decrease total release from the Afterbay to 2,650 cfs.

At 0730 hour on Thursday, June 29, 2006:

Decrease diversions to the Bighorn Canal to 350 cfs (gage height = 73.69 with -0.24 shift). Maintain river release at 2,250 cfs (gage height = 60.29 with a shift of -0.49). Decrease total release from the Afterbay to 2,600 cfs.

At 1600 hour on Thursday, June 29, 2006:

Increase diversions to the Bighorn Canal to 450 cfs (gage height = 74.37 with -0.24 shift). Maintain river release at 2,250 cfs (gage height = 60.29 with a shift of -0.49). Increase total release from the Afterbay to 2,700 cfs.

/S/ Tim H. Felchle