



IN REPLY REFER TO: MT-450

United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



August 9, 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. 07-38**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3633.63; Storage: 996,235 acre-feet; River Release: 1,750 cfs; Inflow: 2,145 cfs;

GENERAL COMMENTS:

The BIA called and requested increases 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 0930 hour on Thursday, August 9, 2007:

Increase average daily turbine release to 2,105 cfs (\approx 1,477 MW-Hrs/day using 34.2 cfs/mw).

At 1200 hour on Thursday, August 9, 2007:

Increase average daily turbine release to 2,130 cfs (\approx 1,495 MW-Hrs/day using 34.2 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0930 hour on Thursday, August 9, 2007:

Increase diversions to Bighorn Canal to 425 cfs (gage height = 74.23 with a shift of -0.27).

Maintain river release at 1,750 cfs (gage height = 59.45 with a shift of -0.11).

Increase total release from the Afterbay to 2,175 cfs.

At 1200 hour on Thursday, August 9, 2007:

Increase diversions to Bighorn Canal to 450 cfs (gage height = 74.40 with a shift of -0.27).

Maintain river release at 1,750 cfs (gage height = 59.45 with a shift of -0.11).

Increase total release from the Afterbay to 2,200 cfs.

/S/ Tim H. Felchle