

United States Department of the Interior

BUREAU OF RECLAMATION

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

October 21, 2008

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: Ĵim Staebler

From: Reservoir and River Operations, Billings, Montana

Subject: Yellowtail Water Release Order - BHR No. 08-61

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.99; Storage: 1,069,903 acre-feet; River Release: 2,700 cfs; Inflow: 2,140 cfs;

GENERAL COMMENTS:

Due to the large amount of algae continuing to grow in the river, recent flow measurements and power generation indicates actual river flows are lower than anticipated. To adjust for the variation in flows, the following operation change is 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.

YELLOWTAIL TURBINE RELEASE:

At 1700 hour on Tuesday, October 21, 2008:

Decrease average daily turbine release to $\approx 2,430$ cfs ($\approx 1,895$ MW-Hrs/day using 30.8 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1700 hour on Tuesday, October 21, 2008:

Maintain diversions to the Bighorn Canal at 0 cfs (gage height = 69.34 with -0.84 shift). Decrease river release to 2,500 cfs (maintain gage height at 61.73 & apply new shift of -1.73). Decrease total release from the Afterbay to 2,500 cfs.

/S/ Tim H. Felchle