



United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



IN REPLY REFER TO: MT-450

August 12, 2014

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-6040
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana /s/ Tim H. Felchle

Subject: **Yellowtail Water Release Order - BHR No. 14-78**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.37; Storage: 1,012,703 acre-feet; River Release: 2,600 cfs; Inflow: 2,900 cfs;

GENERAL COMMENTS:

The Chief Investigating Officer for the BIA called and requested a reduction in releases for 12 hours to assist in a recovery effort of a drowning victim near the Two Leggins fishing access site. To assist in this recovery effort, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam.

SPECIAL NOTE: To provide the proper mixing of water releases to the Bighorn River in attempt to minimize PSAT levels, it is desirable to maintain the Yellowtail Afterbay Reservoir between a maximum elevation of 3192.0 feet and a minimum elevation of 3183.6 feet and provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates, plus or minus 10%.

YELLOWTAIL TURBINE RELEASE:

At 1800 hour on Tuesday, August 12, 2014:

Decrease average daily turbine release at 2,405 cfs (\approx 1,700 MW-Hours/day using 34.0 cfs/mw).

At 0700 hour on Wednesday, August 13, 2014:

Decrease average daily turbine release at 1,805 cfs (\approx 1,275 MW-Hours/day using 34.0 cfs/mw).

Due to major unit re-wind project, restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 1800 hour on Tuesday, August 12, 2014:

Maintain diversion to the Bighorn Canal at 375 cfs (gage height = 74.23 with -1.23 shift).

Decrease river release to 2,100 cfs (gage height = 60.22 with -0.55 shift).

Decrease total release from the Afterbay to 2,475 cfs.

At 0700 hour on Wednesday, August 13, 2014:

Maintain diversion to the Bighorn Canal at 375 cfs (gage height = 74.23 with -1.23 shift).

Decrease river release to 1,500 cfs (gage height = 59.62 with -0.55 shift).

Decrease total release from the Afterbay to 1,875 cfs.