



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

July 2, 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/ Clayton R. Jordan

Subject: **Yellowtail Water Release Order - BHR No. 14-61 (Revised)**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3636.77; Storage: 981,570 acre-feet; River Release: 4,000 cfs; Inflow: 8,330 cfs;

GENERAL COMMENTS:

The BIA requested diversions restart on the Bighorn Canal. In response, 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 3184.6 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 0700 hour on Wednesday, July 2, 2014:

Increase average daily turbine release to 4,105 cfs (\approx 3,620 MW-Hours/day using 27.2 cfs/mw).

At 1700 hour on Wednesday, July 2, 2014:

Increase average daily turbine release to 4,705 cfs (\approx 4,150 MW-Hours/day using 27.2 cfs/mw).

Restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 0700 hour on Wednesday, July 2, 2014:

Increase diversions to the Bighorn Canal to 175 cfs (gage height = 72.18 with -0.72 shift).

Maintain river release at 4,000 cfs (gage height = 61.71 with a -0.65 shift).

Increase total release from the Afterbay to 4,175 cfs.

At 1700 hour on Wednesday, July 2, 2014:

Increase diversions to the Bighorn Canal to 275 cfs (gage height = 73.01 with -0.72 shift).

Increase river release to 4,500 cfs (gage height = 62.01 with a -0.65 shift).

Increase total release from the Afterbay to 4,775 cfs.