



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

April 11, 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. 14-36**

CURRENT RESERVOIR CONDITIONS

Elevation: 3613.44; Storage: 784,682 acre-feet; River Release: 6,500 cfs; Inflow: 4,930 cfs;

GENERAL COMMENTS:

Recent streamflow measurements by the USGS indicate the actual flow in the Bighorn River is lower than anticipated. The following operations are required at Yellowtail Dam, Powerplant, and Afterbay Dam to adjust for the variation of flow.

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 at or above elevation 3184.50 feet and provide a mixing flow of approximately 85% through the spillway gates and 15% through the sluice gates, plus or minus 5%.

As described in Yellowtail Water Release Order BHR No. 13-29, the Yellowtail Dam tailrace elevation must be maintained no higher than elevation 3190.0 feet.

As described in Yellowtail Water Release Order BHR No. 13-35, the Yellowtail Afterbay Reservoir must be maintained between elevations 3186.0 and 3190.0 feet.

YELLOWTAIL TURBINE RELEASE:

At 0800 hour on Monday, April 14, 2014:

Maintain average daily turbine release at 6,430 cfs (\approx 4,700 MW-Hours/day using 32.8 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0800 hour on Monday, April 14, 2014:

Maintain diversions to the Bighorn Canal at 0 cfs.

Maintain river release at 6,500 cfs (increase the gage height to 62.20 and apply a new shift of +0.18).

Maintain total release from the Afterbay at 6,500 cfs.