



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

May 6, 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. 14-39**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3602.57; Storage: 723,355 acre-feet; River Release: 7,500 cfs; Inflow: 7,310 cfs;

GENERAL COMMENTS:

The BIA requested diversions to Bighorn Canal begin on May 7 at a rate of 100 cfs. 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 at or above elevation 3185.0 feet and provide a mixing flow of approximately 85% through the spillway gates and 15% through the sluice gates, plus or minus 5%.

YELLOWTAIL TURBINE RELEASE:

At 0800 hour on Wednesday, May 7, 2014:

Increase average daily turbine release to 7,530 cfs (\approx 5,490 MW-Hours/day using 32.9 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0800 hour on Wednesday, May 7, 2014:

*Initiate diversions to the Bighorn Canal at 100 cfs (gage height = 70.67 with 0.00 shift).
Maintain river release at 7,500 cfs (maintain the gage height at 62.63 with a +0.18 shift).
Increase total release from the Afterbay to 7,600 cfs.*