



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 27, 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. 14-48**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3603.95; Storage: 730,646 acre-feet; River Release: 8,320 cfs; Inflow: 10,360 cfs;

GENERAL COMMENTS:

The BIA has requested increases in diversions to 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 at or above elevation 3186.0 feet and provide a mixing flow of approximately 85% through the spillway gates and 15% through the sluice gates, plus or minus 5%.

YELLOWTAIL BYPASS RELEASE:

At 0900 hour on Wednesday, May 28, 2014:

Increase release through the spillway gates to $\approx 1,350$ cfs.

At 0900 hour on Thursday, May 29, 2014:

Increase release through the spillway gates to $\approx 1,450$ cfs.

YELLOWTAIL TURBINE RELEASE:

At 0900 hour on Wednesday, May 28, 2014:

Maintain average daily turbine release at 7,200 cfs ($\approx 5,450$ MW-Hours/day using 31.7 cfs/mw).

At 0900 hour on Thursday, May 29, 2014:

Maintain average daily turbine release at 7,200 cfs ($\approx 5,450$ MW-Hours/day using 31.7 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 0900 hour on Wednesday, May 28, 2014:

Increase diversions to the Bighorn Canal to 300 cfs (gage height = 72.48 with 0.00 shift).

Maintain river release at 8,320 cfs (maintain gage height at 63.04 with a +0.11 shift).

Increase total release from the Afterbay to 8,620 cfs.

At 0900 hour on Thursday, May 29, 2014:

Increase diversions to the Bighorn Canal to 400 cfs (gage height = 73.17 with 0.00 shift).

Maintain river release at 8,320 cfs (maintain gage height at 63.04 with a +0.11 shift).

Increase total release from the Afterbay to 8,720 cfs.