



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

June 10, 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. 14-53**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3618.61; Storage: 819,158 acre-feet; River Release: 6,320 cfs; Inflow: 9,615 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, June 11, 2014:

Maintain release through the river outlet works at \approx 875 cfs.

At 1600 hour on Wednesday, June 11, 2014:

Decrease release through the river outlet works to \approx 500 cfs.

At 1600 hour on Thursday, June 12, 2014:

Decrease release through the river outlet works to 0 cfs.

YELLOWTAIL TURBINE RELEASE:

At 0900 hour on Wednesday, June 11, 2014:

Maintain average daily turbine release at 5,450 cfs (\approx 4,126 MW-Hours/day using 31.7 cfs/mw).

At 1600 hour on Wednesday, June 11, 2014:

Maintain average daily turbine release at 5,450 cfs (\approx 4,126 MW-Hours/day using 31.7 cfs/mw).

At 1600 hour on Thursday, June 12, 2014:

Maintain average daily turbine release at 5,450 cfs (\approx 4,126 MW-Hours/day using 31.7 cfs/mw).

Restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 0900 hour on Wednesday, June 11, 2014:

Increase diversions to the Bighorn Canal to 500 cfs (gage height = 74.00 with a -0.22 shift).

Decrease river release to 5,895 cfs (gage height = 61.98 with a +0.11 shift).

Maintain total release from the Afterbay to 6,395 cfs.

At 1600 hour on Wednesday, June 11, 2014:

Maintain diversions to the Bighorn Canal at 500 cfs (gage height = 74.00 with a -0.22 shift).

Decrease river release to 5,520 cfs (gage height = 61.80 with a +0.11 shift).

Decrease total release from the Afterbay to 6,020 cfs.

At 1600 hour on Thursday, June 12, 2014:

Maintain diversions to the Bighorn Canal at 500 cfs (gage height = 74.00 with a -0.22 shift).

Decrease river release to 5,020 cfs (gage height = 61.54 with a +0.11 shift).

Decrease total release from the Afterbay to 5,520 cfs.