



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

September 26, 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. 14-91**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3641.23; Storage: 1,036,337 acre-feet; River Release: 4,500 cfs; Inflow: 3,020 cfs;

GENERAL COMMENTS:

The Yellowtail Powerplant is operating at a higher efficiency than anticipated. Western Area Power Administration (WAPA) requested total generation from Yellowtail Powerplant be limited to 136 MW/hour once the Yellowtail Afterbay Reservoir is refilled. To maintain the 136 MW/hour, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam.

SPECIAL NOTE: Once the Yellowtail Afterbay Reservoir is brought back to a normal operating elevation, it is desirable to maintain the Yellowtail Afterbay Reservoir between a maximum elevation of 3192.0 feet and a minimum elevation of 3183.6 feet to provide a mixing flow of approximately 75% through the radial gates and 25% through the sluice gates, plus or minus 10% in attempt to minimize PSAT levels.

YELLOWTAIL BYPASS RELEASE:

At 1700 hour on Friday, September 26, 2014:

Increase the release through river outlet works to approximately 940 cfs.

YELLOWTAIL TURBINE RELEASE:

At 1700 hour on Friday, September 26, 2014:

Maintain average daily turbine release at 3,490 cfs (\approx 3,265 MW-Hours/day using 25.7 cfs/mw).

- **Due to major unit re-wind project, restrict and limit turbine release to 3-unit capacity.**
- **WAPA will generate more until the Yellowtail Afterbay Reservoir is refilled.**

AFTERBAY RELEASE AND OPERATION:

At 1700 hour on Friday, September 26, 2014:

Maintain diversion to the Bighorn Canal at 0 cfs.

Maintain river release at 4,500 cfs (gage height at 62.57 with a -1.21 shift).

Maintain total release from the Afterbay at 4,500 cfs.