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

July 18, 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. 14-68**

CURRENT RESERVOIR CONDITIONS:
Elevation: 3640.50; Storage: 1,026,915 acre-feet; River Release: 5,500 cfs; Inflow: 7,050 cfs;

GENERAL COMMENTS:
Release to the Bighorn River will be decreased as inflows continue to decline. Western Area Power Administration (WAPA) requested total generation from Yellowtail Powerplant be limited to 171 MW/hour. 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 between a maximum elevation of 3192.0 feet and a minimum elevation of 3186.0 feet and provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates, plus or minus 10%.

YELLOWTAIL BYPASS RELEASE:
At 0800 hour on Monday, July 21, 2014:
Decrease release through the spillway gates to approximately 500 cfs.
At 1600 hour on Monday, July 21, 2014:
Decrease release through the spillway gates to 0 cfs.

YELLOWTAIL TURBINE RELEASE:
At 0800 hour on Monday, July 21, 2014:
Maintain average daily turbine release at approximately 5,040 cfs (≈ 4,100 MW-Hours/day using 29.5 cfs/mw).
At 1600 hour on Monday, July 21, 2014:
Maintain average daily turbine release at approximately 5,040 cfs (≈ 4,100 MW-Hours/day using 29.5 cfs/mw).

Restrict and limit turbine release to 3-unit capacity.

<u>AFTERBAY RELEASE AND OPERATION:</u>

At 0800 hour on Monday, July 21, 2014:

Maintain diversion to the Bighorn Canal at 600 cfs (gage height = 74.56 with -0.22 shift).
Decrease river release to 5,010 cfs (gage height = 62.18 with -0.54 shift).
Decrease total release from the Afterbay to 5,610 cfs.

At 1600 hour on Monday, July 21, 2014:

Maintain diversion to the Bighorn Canal at 600 cfs (gage height = 74.56 with -0.22 shift).
Decrease river release to 4,510 cfs (gage height = 61.90 with -0.54 shift).
Decrease total release from the Afterbay to 5,110 cfs.