



# 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 16, 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. 14-45**

### **CURRENT RESERVOIR CONDITIONS:**

Elevation: 3603.72; Storage: 729,428 acre-feet; River Release: 8,500 cfs; Inflow: 7,975 cfs;

### **GENERAL COMMENTS:**

WAPA requested total generation from Yellowtail Powerplant be limited to 230 MW/hour. The release through the Yellowtail Dam spillway was adjusted to achieve the power generation limit. The following operations were 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 0945 hour on Friday, May 16, 2014:**

*Increase release through the spillway gates to 1,330 cfs.*

### **YELLOWTAIL TURBINE RELEASE:**

**At 0945 hour on Friday, May 16, 2014:**

*Decrease average daily turbine release to 7,200 cfs ( $\approx$  5,500 MW-Hours/day using 31.4 cfs/mw).*

### **AFTERBAY RELEASE AND OPERATION:**

**At 0945 hour on Friday, May 16, 2014:**

*Maintain diversions to the Bighorn Canal at 100 cfs (gage height = 70.67 with 0.00 shift).*

*Maintain river release at 8,500 cfs (gage height = 63.04 with a +0.18 shift).*

*Maintain total release from the Afterbay at 8,600 cfs.*