



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 15, 2011

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-6400
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana

Subject: **Yellowtail Water Release Order - BHR No. 11-73 (Revision)**

CURRENT RESERVOIR CONDITIONS (July 14, 2011; 2:00 p.m.)

Elevation: 3651.52 Storage: 1,187,523 acre-feet; River Release: 11,000 cfs; Inflow: 14,285 cfs;

GENERAL COMMENTS:

Recent canal flow measurements indicated actual diversions to the Bighorn Canal were less than anticipated. The BIA also reported the chemical treatment to the large algae growth in the Bighorn Canal was completed. In response, the following operation changes are required at Yellowtail Dam and Afterbay.

YELLOWTAIL TURBINE RELEASE:

At 1600 hour on Thursday, July 14, 2011:

Increase average daily turbine release to 6,935 cfs (\approx 5,900 MW-Hrs/day using 28.2 cfs/mw).

YELLOWTAIL BYPASS RELEASE:

At 1600 hour on Thursday, July 14, 2011:

Maintain releases through the spillway gates at \approx 4,420 cfs

AFTERBAY RELEASE AND OPERATION:

At 1600 hour on Thursday, July 14, 2011:

Increase diversions to the Bighorn Canal to 425 cfs (gage height = 75.23 with -1.26 shift).

Maintain river release at 11,000 cfs (gage height = 64.11 with 0.0 shift).

Increase total release from the Afterbay to 11,425 cfs.

SPECIAL AFTERBAY OPERATION REQUIREMENT:

Maintain the level of the Afterbay at or above elevation 3185.0 until further notice. It is also extremely important to maintain the river stage within +/- 0.06 feet of the river stage set point value.

/S/ Tim H. Felchle