July 28, 2022

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
   Project Manager, Mills, Wyoming
   Attention: WY-4000, WY-4100, WY-6040
   Superintendent, National Park Service, Lovell, Wyoming
   Attention: James R. Hill

From: Reservoir and River Operations, Billings, Montana

Subject: Yellowtail Water Release Order - BHR No. 22-49

CURRENT RESERVOIR CONDITIONS:
Elevation: 3636.57 feet; Storage: 966,876 acre-feet; River Release: 2,600 cfs; Canal Diversion: 450 cfs
Inflow: 2,310 cfs; River Gage Shift: -0.05 feet; Canal Gage Shift: -0.06 feet

GENERAL COMMENTS:
Unit 4 of the Yellowtail Powerplant will be unavailable from 0700 hour on Monday, August 1 through 1700 hour on Friday, August 12 for maintenance. In response, the following operation changes are required at Yellowtail Dam, Powerplant and 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 3183.0 feet and provide a mixing flow of approximately 75% through the radial gates and 25% through the sluice gates.

YELLOWTAIL TURBINE RELEASE:
At 0700 hour on Monday, August 1 through 1700 hour on Friday, August 12, 2022:
   Maintain average daily turbine releases to 2,980 cfs. (= 2,120 MW-Hours/day using 33.7 cfs/mw)
   Limit turbine release to 3-unit capacity

AFTERBAY RELEASE AND OPERATION:
At 0700 hour on Monday, August 1 through 1700 hour on Friday, August 12, 2022:
   Maintain diversions to Bighorn Canal at 450 cfs. (gage height = 73.54 with a -0.06 ft shift)
   Maintain river releases at 2,600 cfs. (gage height = 60.13 ft with a -0.05 ft shift)
   Maintain total release from the Afterbay to 3,050 cfs.