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# United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



December 22, 2008

## **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  
Area Manager, Mills, Wyoming  
Attention: WY-4000, WY-4100, WY-6400  
Assistant Superintendent, National Park Service, Lovell, Wyoming  
Attention: Jim Staebler

From: Reservoir and River Operations, Billings, Montana

Subject: **Yellowtail Water Release Order - BHR No. 09-13**

### **CURRENT RESERVOIR CONDITIONS:**

Elevation: 3634.50; Storage: 1,005,578 acre-feet; River Release: 2,450 cfs; Inflow: 1,130 cfs;

### **GENERAL COMMENTS:**

Annual maintenance will be performed on the government sewage lagoon during December 30-31 and will require the level of the Afterbay to be maintained no higher than elevation 3187.5. As a result, the following operation change is required.

**NOTE:** This is the time period when fish are less affected by high levels of nitrogen gas super-saturation. Since mixing flows through the spillway gates and through the sluice gates is not required at this time, it is still desirable to provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates whenever the level of the Afterbay allows for the flows to be released through the spillway gates.

### **TURBINE RELEASES:**

**During 0800 hour on December 30, 2008 through 0900 hour on December 31, 2008:**

*Maintain average daily turbine release at 2,380 cfs ( $\approx 1,575$  MW-Hrs/day using 36.3 cfs/mw).*

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

**During 0800 hour on December 30, 2008 through 0900 hour on December 31, 2008:**

*Maintain diversions to the Bighorn Canal at 0 cfs (gate height = 69.34 with -0.84 shift).*

*Maintain river release at 2,450 cfs (maintain gage height at 60.16 using shift of -0.20).*

*Maintain total release from the Afterbay at 2,450 cfs.*

**Note:** *Maintain level of Afterbay no higher than elevation 3187.5 for maintenance of sewage lagoon.*

/S/ Tim H. Felchle