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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



September 27, 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, Helena, Montana  
Attention: MT-682, MT669  
Project Manager, Mills, Wyoming  
Attention: WY-4000, WY-4100, WY-6400  
PPL Energy Plus, LLC, Butte, Montana  
Attention: Resource Coordinator, Lance Elias

From: Reservoir and River Operations, Billings, Montana

Subject: **Canyon Ferry Water Release Order - CFR No. 11-52**

**CURRENT RESERVOIR CONDITIONS:** (September 27, 2011; 7:00a.m.)

Elevation: 3791.48; Storage: 1,711,099 acre-feet; River Release: 4,400 cfs; Inflow: 3,140 cfs;

## **GENERAL COMMENTS:**

As the 2011 irrigation season comes to a close, Helena Valley Irrigation District will be discontinuing all irrigation deliveries to the Helena Valley Reservoir on September 30. To slow the evacuation rate of storage in Canyon Ferry and also safely accommodate a Contractor with the stoplog guide removal project, the following operation changes are required at Canyon Ferry Dam and Powerplant.

**CANYON FERRY RELEASES AND OPERATIONS:** All times are Mountain Daylight Savings Time (MDST)

### **During 1700-0700 hour each day from Monday through Saturday beginning September 27, 2011:**

*Initiate and maintain releases through the river outlet gates at  $\approx$  725 cfs.  
Maintain releases through the spillway gates at 0 cfs.  
Maintain turbine releases at 2-unit load of  $\approx$  3,250 cfs ( $\approx$  830 MW-Hrs/day using 94.2 cfs/mw).  
Maintain releases for Helena Valley Project at 655 cfs (330 cfs pumped to Helena Valley and 325 cfs discharged to the Missouri River).  
Increase release to the Missouri River to 4,300 cfs. (average daily river release = 4,000 cfs)  
Increase total release from Canyon Ferry to 4,630 cfs. (average daily total release = 4,330 cfs)*

### **During 0700-1700 hour each day from Monday through Saturday beginning September 27, 2011:**

*Decrease and maintain releases through the river outlet gates at  $\approx$  0 cfs.  
Maintain releases through the spillway gates at 0 cfs.  
Maintain turbine releases at 2-unit load of  $\approx$  3,250 cfs ( $\approx$  830 MW-Hrs/day using 94.2 cfs/mw).  
Maintain releases for Helena Valley Project at 655 cfs (330 cfs pumped to Helena Valley and 325 cfs discharged to the Missouri River).  
Decrease release to the Missouri River to 3,575 cfs. (average daily river release = 4,000 cfs)  
Decrease total release from Canyon Ferry to 3,905 cfs. (average daily total release = 4,330 cfs)*

### **At 0900 hour on Friday, September 30, 2011:**

*Maintain releases through the river outlet gates at  $\approx$  0 cfs.  
Maintain releases through the spillway gates at 0 cfs.  
Maintain turbine releases at 2-unit load of  $\approx$  3,250 cfs ( $\approx$  830 MW-Hrs/day using 94.2 cfs/mw).  
Decrease releases for Helena Valley Project to 0 cfs.  
Decrease release to the Missouri River to 3,250 cfs. (average daily river release = 4,000 cfs)  
Decrease total release from Canyon Ferry at 3,250 cfs. (average daily river release = 4,000 cfs)*

**During 0700-1700 hour each day from Monday through Saturday beginning September 30, 2011:**

*Decrease and maintain releases through the river outlet gates at  $\approx 0$  cfs.*

*Maintain releases through the spillway gates at 0 cfs.*

*Maintain turbine releases at 2-unit load of  $\approx 3,250$  cfs ( $\approx 830$  MW-Hrs/day using 94.2 cfs/mw).*

*Maintain releases for Helena Valley Project at 0 cfs.*

*Decrease release to the Missouri River to 3,250 cfs. (average daily river release = 4,000 cfs)*

*Decrease total release from Canyon Ferry to 3,250 cfs. (average daily total release = 4,000 cfs)*

**During 1700-0700 hour each day from Monday through Saturday beginning September 30, 2011:**

*Initiate and maintain releases through the river outlet gates at  $\approx 1,300$  cfs.*

*Maintain releases through the spillway gates at 0 cfs.*

*Maintain turbine releases at 2-unit load of  $\approx 3,250$  cfs ( $\approx 830$  MW-Hrs/day using 94.2 cfs/mw).*

*Maintain releases for Helena Valley Project at 0 cfs.*

*Increase release to the Missouri River to 4,550 cfs. (average daily river release = 4,000 cfs)*

*Increase total release from Canyon Ferry to 4,550 cfs. (average daily total release = 4,000 cfs)*

**Every Saturday beginning at 1700 hour through 0700 hour on Monday:**

*Initiate and maintain releases through the river outlet gates at  $\approx 950$  cfs.*

*Maintain releases through the spillway gates at 0 cfs.*

*Maintain turbine releases at 2-unit load of  $\approx 3,250$  cfs ( $\approx 830$  MW-Hrs/day using 94.2 cfs/mw).*

*Maintain releases for Helena Valley Project at 0 cfs.*

*Increase release to the Missouri River to 4,200 cfs. (average daily river release = 4,000 cfs)*

*Increase total release from Canyon Ferry to 4,200 cfs. (average daily river release = 4,000 cfs)*

/S/ Tim H. Felchle