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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



July 14, 2009

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. 09-31**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3797.99; Storage: 1,925,014 acre-feet; River Release: 7,150 cfs; Inflow: 5,840 cfs;

GENERAL COMMENTS:

Due to the recent precipitation and a reduction in irrigation demands to the Helena Valley Project, the following operation changes are required at Canyon Ferry Dam and Powerplant.

CANYON FERRY RELEASES AND OPERATIONS: All times are Mountain Standard Time (MDST)

During 0000-0700 hour on Wednesday, July 15, 2009:

*Maintain releases through the river outlet gates at 2,000 cfs.
Maintain releases through the spillway gates at 0 cfs.
Maintain turbine releases at 4,900 cfs (≈ 1,294 MW-Hrs/day using 90.9 cfs/mw).
Maintain releases for Helena Valley Project at 675 cfs (350 cfs pumped to Helena Valley and 325 cfs discharged to the Missouri River).
Maintain average daily release to the Missouri River at about 7,225 cfs.
Maintain average total release from Canyon Ferry at about 7,575 cfs.*

During 0700-1700 hour on Wednesday, July 15, 2009:

*Decrease and maintain releases through the river outlet gates at 0 cfs.
Maintain releases through the spillway gates at 0 cfs.
Maintain turbine releases at 4,900 cfs (≈ 1,294 MW-Hrs/day using 90.9 cfs/mw).
Decrease releases for Helena Valley Project to 575 cfs (300 cfs pumped to Helena Valley and 275 cfs discharged to the Missouri River).
Decrease average daily release to the Missouri River to about 5,175 cfs.
Decrease average total release from Canyon Ferry to about 5,475 cfs.*

During 1700-2400 hour on Wednesday, July 15, 2009:

Increase and maintain releases through the river outlet gates at 2,000 cfs.

Maintain releases through the spillway gates at 0 cfs.

Maintain turbine releases at 4,900 cfs ($\approx 1,294$ MW-Hrs/day using 90.9 cfs/mw).

Maintain releases for Helena Valley Project at 575 cfs (300 cfs pumped to Helena Valley and 275 cfs discharged to the Missouri River).

Maintain average daily release to the Missouri River at about 7,175 cfs.

Maintain average total release from Canyon Ferry at about 7,475 cfs.

During 0000-0700 hour and 1600-2400 hour on Thursday, July 16, 2009:

Maintain releases through the river outlet gates at 2,000 cfs.

Maintain releases through the spillway gates at 0 cfs.

Maintain turbine releases at 4,900 cfs ($\approx 1,294$ MW-Hrs/day using 90.9 cfs/mw).

Maintain releases for Helena Valley Project at 575 cfs (300 cfs pumped to Helena Valley and 275 cfs discharged to the Missouri River).

Maintain average daily release to the Missouri River at about 7,175 cfs.

Maintain average total release from Canyon Ferry at about 7,475 cfs.

During 0700-1600 hour on Thursday, July 16, 2009:

Decrease and maintain releases through the river outlet gates at 0 cfs.

Maintain releases through the spillway gates at 0 cfs.

Maintain turbine releases at 4,900 cfs ($\approx 1,294$ MW-Hrs/day using 90.9 cfs/mw).

Maintain releases for Helena Valley Project at 575 cfs (300 cfs pumped to Helena Valley and 275 cfs discharged to the Missouri River).

Decrease average daily release to the Missouri River to about 5,175 cfs.

Decrease average total release from Canyon Ferry to about 5,475 cfs.

/S/ Tim H. Felchle