

MEMORANDUM FOR THE RECORD 19 LGS 06 Adjustable Spillway Weir Calibration**SUBJECT: Little Goose adjustable spillway weir elevation calibration**Background

Little Goose Lock and Dam received a Columbia Basin Teletype (CBT) on June 04 at 1658, which incorporated instructions for temporary special spill operation for adult passage. The special operation included adjusting the adjustable spillway weir (ASW) to the high crest position daily from 0400-1900 hours through June 12. Since the ASW has remained in the low crest position for the majority of the spring spill season, operators attempted to check ASW operation the evening of June 04 to ensure Little Goose could comply with the CBT. When operators checked on the ASW, they noticed that the encoders which provide the ASW elevation were providing an erroneous elevation reading. The low crest height is 618 feet and the readout was 645.22 feet.

Little Goose staff conducted various troubleshooting on the ASW on the morning of June 05 and did not adjust the ASW per the CBT. Personnel determined that the ASW needed to be raised to the uppermost physical stop to recalibrate the encoders to properly make crest height adjustments.

Little Goose staff conducted the calibration on June 06. The ASW was raised, starting at 0700 and recalibration was completed by 0945. The calibration process was relatively quick, however the ASW vertical travel is very slow. Once the calibration was finished, Little Goose operators were instructed by Reservoir Control Center (RCC) to set the ASW back in the low crest position of 618 feet. Little Goose adjusted the spill pattern and changed the ASW to the high crest position, 622 feet, at 1200 and is currently operating per the CBT that was issued.

Path Forward

Currently the ASW is operating per CBT and will continue to operate within Fish Passage Plan requirements and future CBT's.

Estimated mortalities by species, and origin:

- A. Species – N/A
- B. Origin – N/A
- C. Length – N/A
- D. Marks and tags – N/A

- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – N/A

Sincerely,
Scott St. John
Project Fisheries Biologist
Little Goose Dam
(509) 399-2233 ext. 263
Scott.St.John@usace.army.mil