

**CENWW-OD-WL 06/30/16**

**MEMORANDUM FOR THE RECORD - 16 LMN 04 MFR Spillgate #2 Failure**

**SUBJECT:** Failure of Spillway Gate (SG) #2 at Lower Monumental Dam on June 29, 2016.

On June 28 at 1700 hours the fish barge (tug Dauby) requested zero spill to improve conditions for transition across the spillway to the JFF barge dock. During fish loading procedures a change to uniform spill (17 KCFS) was initiated. Upon completion of loading at 1800 hours the Dauby requested a spill of 3 KCFS to assist in departure. Upon their exit from the tailrace at 1810 hours the spillgates were operated to return to the required spill pattern (FPP Table LMN 9).

During this operation the operator noticed a lack of movement in SG #2. Upon investigation it was found that gages did not agree with each other and cables were laying slack on the gate and were not following their normal direction of reeving on the drums. The drums were found to have over traveled while being lowered and the cables were spooled in the opposite direction of normal travel.

At 1830 hours the spill pattern was adjusted to pass that portion of the pattern that was allocated to SG#2 (Table LMN 9) to SG# 1. After coordination with Walla Walla District OPS the pattern was readjusted putting SG#2 flow through SG#3.

Investigation into the cause of failure and appropriate steps forward are forthcoming.

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