

MEMORANDUM FOR THE RECORD**SUBJECT:** 23 LMN 13 Overshoot spill makeup

During the annual PM of Spillgate 8, it was discovered that the drive gear is worn 50%+ and the pinion gear is showing signs of wear. Another inspection on 14 September confirmed the gate is unsafe to operate. See 23LMN12 and 23LM12 for details. Difficulty in removing the bay 8 gearbox has shifted estimated date of return to service for bay 8 to Friday, 22 September. This delay has interfered with three days of planned surface spill for overshoot steelhead passage. While not the preferred route for passage, the regional fisheries managers decided during the 20 September TMT call that providing some deep spill now as an alternate fallback passage route for overshoot steelhead is preferable to waiting until after spillbay 8 is repaired. The agreed operations is to provide an equivalent amount (8 kcfs) of deep spill for 4 hours Thursday morning, 21 September, likely through bay 6, and then return to using surface spill for 4 hours on Saturday morning, 23 September. In the event spillbay 8 is not returned to operation Friday, 4 hours of deep spill (8 kcfs) will occur Saturday 23 September. In the latter event, regional managers will reconvene to discuss further alternate operations for Lower Monumental Dam to meet the planned spill schedule.

Update: Spillbay 8 was repaired and returned to operation Thursday, 21 September 2023, and surface spill for overshoot steelhead occurred 23-26 September to make up for days spill did not occur during the previous week. It is recognized that, although the total number of days and hours of spill scheduled for September occurred, this event likely reduced the effectiveness of spill to provide a route for fallback for adult steelhead because one day (4 hours) of surface spill through the RSW was replaced with one day (4 hours) of deep spill through spillbay 6 and because there was a gap of one week with no spill followed by five consecutive days with spill, thus spill as a route for fallback was not as equally available for adult steelhead at Lower Monumental Dam compared to the original spill schedule during this event.

- 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 – Repair or replace gearbox.

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