

**MEMORANDUM FOR THE RECORD**

**SUBJECT:** 13 MCN 19 McNary Forced Into Emergency Bypass on November 27

**Narrative:** The McNary Juvenile Collection Channel (JCC) was forced to go into emergency bypass on November 27, due to the third failure in a week of the automatic side channel dewatering brush. Two previous repair attempts failed, most likely due to the age of the articulated powercord guard. Replacement links that we had in stock were not sufficient to repair the cord guard, and it continued to fail. During the final failure at approximately 0200 hours on Wednesday morning, the cord guard suffered about a dozen breaks.

Failure of the temporary repairs illustrates the need to replace the entire system with a new articulated powercord guard. We have clearly demonstrated that replacement links will not suffice. We have ordered a new spool of powercord guard, but it will take approximately two weeks to receive. We will add lengths of completely new powercord guard to our critical parts list.

No fish were lost during the transition to emergency bypass. The only things we lose by going into emergency bypass is the PIT tag count and the 450 CFS attraction water flow from the JCC to the Oregon ladder north entrance. The 1000 CFS gravity flow from the Tainter valve, the flows from the fish pumps, and the ladder exit flow attraction water will continue to supply the Oregon ladder.

This illustrates the need to install a PIT tag antenna in the north trash sluiceway, where the fish now exit, so that the PIT tag count will continue. The fish that exit the north trash sluiceway enter the river right next to the spillway, which has highest survival rate of any fish passage feature at McNary.

Please contact me if you have any questions.

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