

**CENWW-OD-T**

**Date:** 30 May 2014

**MEMORANDUM FOR THE RECORD**

**SUBJECT:** 14 MCN 12 - Interruption in secondary bypass at McNary Dam on 30 May 2014.

**Narrative:** At 0937 hours on May 30, while in secondary (sampling) bypass, the McNary Juvenile Fish Facility separator experienced a flush of excess water due to the swapping of orifices in the juvenile channel. The orifices were being rapidly swapped because the log bronc (a specialized type of boat) was moving into place in the forebay to remove debris with log booms, and we had to quickly close the orifices near the activity (north end of the channel), and open other orifices far down at the south (downstream) end of the channel. The opening of the orifices in the south end of the channel caused a surge that the closing of orifices at the upstream end could not overcome.

This water surge threatened to exceed the capacity of the separator, so the separator operators switched into primary bypass. As the sample was now compromised, we elected to stay in primary bypass until the debris operation was completed, the orifices were swapped back, and the channel had stabilized. We passed back into secondary bypass at 1103 hours, so we were in primary bypass for 1 hour and 26 minutes. At the rate of 6 samples per hour, 9 samples were missed. We had recently gone to a 4% sample, so we are still likely have enough fish collected to meet minimum sampling needs after we end routine secondary bypass operations at 0700 hours tomorrow.

**Results:** No fish loss. 9 sample opportunities were missed.

**Carl R. Dugger**  
**Supervisory Fisheries Biologist**  
**McNary Juvenile Fish Facility**