# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 17AppD001 – McNary Lamprey Passage – Ladder Entrance Weir

*(Former Title: 16 MCN 02 - McNary Lamprey Passage and Entrance Weir Operations)*

**Date Submitted**: March 22, 2016

**Project**: McNary Lock and Dam

**Requester Name, Agency**: Bobby Johnson, USACE

**Final Action:** **APPROVED – APRIL 14, 2016**

**FPP Section**: **2016 Appendix D (Ops for Non-Listed Species), McNary Dam 5.2.3. “**During lamprey passage season from June 15–September 30, the ladder entrance weirs at SFE and NFE are lowered to sill during nighttime hours (2100-0400) to reduce velocities and encourage lamprey entrance into the ladder. This operation has been implemented since 2010. During the 2013-14 winter maintenance period, a prototype structure designed for adult lamprey passage will be installed at SFE 2. This structure will provide a deep-slot under the entrance weir gate with lower water velocities for lamprey. Consequently, the SFE2 weir will not need to be lowered to sill at night with the prototype structure in place.”

**Justification for Change**: This section above can be deleted. The entrance weirs have not been lowered since 2013. Change Form 15MCN001, approved May 8, 2014, by FPOM, removed a similar section from the FPP, McNary Section 2.3.2.2.j, page 18, as seen below.

**2.3.2.2.j. Lamprey Passage Season June 15–September 30** (modifications with removal of segmental gate stationary section).

**j.1.** Implement nighttime (2100–0400 hours) segmental gate operations:

Lower the SFE 1 entrance weir to the lowest elevation (244 fmsl).

Lower the NFE 2 & 3 entrance weir to the lowest elevation (252 fmsl).

**j.2.** Daytime operations from 0400–2100 hours:

Extend telescoping segmental gates SFE 1 and NFE 2 & 3 depth: 8’ or greater below tailwater.

Maintain tail water and channel differential of 1.0–2.0’.

Therefore, in order to revolve the inconsistency between the McNary section and Appendix D for the 2016 FPP, it is requested that Section 5.2.3.in Appendix D be removed.

Per e-mail March 16, 2016, from Steve Juhnke, District Lamprey Coordinator:

We used to lower for the reduced velocity goal. But when we installed the passage structure in SFE2, the structure flows can be influenced by dropping gates. Velocities would actually reduce to a point that the attraction flows may be too low, to bring lamprey to the structure. We want to keep the flows through the structure as modeled during design.

Hope this helps,

Steve

**Proposed Change**:  Delete section 5.2.3 in Appendix D.

**Comments**:

-----Original Message-----
From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
Sent: Tuesday, March 22, 2016 9:35 AM
To: Bailey, John C NWW <John.C.Bailey@usace.army.mil>
Cc: Trevor Conder - NOAA Federal <Trevor.Conder@noaa.gov>
Subject: [EXTERNAL] Re: FPP Change Form 16 MCN 02 - McNary Lamprey Passage and Entrance Weir Operations

John, This appears to be just a deletion for consistency with current operations. No concerns here. Thanks, Gary

-----Original Message-----

From: Wright, Lisa NWD

Sent: Tuesday, March 22, 2016 1:03 PM

To: Bailey, John C NWW <John.C.Bailey@usace.army.mil>

Subject: RE: FPP Change Form 16 MCN 02 - McNary Lamprey Passage and Entrance Weir Operations

Hi John,

Greg has requested that we transition to change form numbering for the 2017 FPP since the 2016 FPP has already been printed. Also, this change form is for Appendix D, so that would make it 17AppD001. I've attached the change form with that update, and will post it to the website for 2017 FPP change forms as soon as I can.

Thanks,

Lisa

**Record of Final Action**: Approved at FPOM, April 14, 2016