# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 20BON003 – Lamprey Nighttime Fishway Flow Operations

**Date Submitted**: February 14, 2020

**Project**: BON

**Requester Name, Agency**: CRITFC

**Final Action:**

**FPP Section**: BON 2.4.2 (Adult Facilities / Adult Fish Passage Season)

**Justification for Change**: The 2020 Bonneville Dam Fish Passage Plan includes reduced nighttime flow operations in fishways at BON Powerhouse 2 between June 1 and August 31 to benefit adult Pacific lamprey fishway entrance (FPP section 2.4.2.13).

The purpose of this change form is to request similar nighttime flow operations in fishways at BON Powerhouse 1, BON Spillway (B-Branch), and TDA East PH [*see Change Form* [*20TDA009*](http://pweb.crohms.org/tmt/documents/fpp/2020/changes/)]. Recent evaluations by University of Idaho found higher ladder entrance efficiency during periods of reduced nighttime velocity at these locations at BON and TDA dams (Clabough et al. 2019).

**Proposed Change**:

At Bonneville Dam, during night spill hours (Table BON-5), reduce fish unit output to operate all north (NUE, NDE) and south (SUE, SDE) entrances at 0.5’ of entrance head. Fishway entrance differentials at Cascade Island, B-Branch, and PH1 will be reduced to 0.5’ by reprogramming of existing PLC Fish Valve Control Systems. Normal operating conditions on all entrances are 1'–2' (1.5' preferred), and water velocities are 1.5 feet per second (fps) and 4 fps (2 fps preferred) for the full length of the powerhouse collection channel, and the lower ends of the fish ladders that are below the tailwater.

**Comments**:

**Record of Final Action**: