# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 17JDA005 – Turbine Dewatering Gatewell Dipping

**Date Submitted**: May 3, 2017

**Project**: JDA

**Requester Name, Agency**: Miro Zyndol, JDA Fisheries

**Final Action:**

**FPP Section**: JDA 6.5.1. Dewatering – Turbine Units.

**Justification for Change**: Unit 12 was taken out of service May 1, 2017, for annual maintenance and the STSs were removed. Turbine dewatering criteria in FPP sections 6.5.1 and 6.5.2 were followed correctly – the unit was spun to flush fish immediately prior to installing tail logs and before closing the orifices. Gatewell dipping is not required when STSs have been removed.

As described in Memo for the Record (MFR) *17JDA07*, emailed to FPOM on May 3, 2017, a total of 3,417 smolts died after being stranded on top of bulkheads that were installed in Unit 12 gatewells B and C for the dewatering. The mortalities were comprised of: 3,183 steelhead (2.8% of passage index on 5/2), 232 Chinook (0.2% of passage index on 5/2), 1 sockeye, and 1 coho.

This is the first mortality incident of this kind. To prevent future occurrences, JDA Fisheries proposes to change FPP criteria to require gatewell dipping every time a turbine is dewatered April 1 through December 15, whether or not STSs are installed.

**Proposed Change**: *(edits to existing FPP text shown in track changes)*

6.5. Dewatering – Turbine Units.

**6.5.1.** Remove juvenile fish from the gatewell(s) that will be drained. This is done by use of a special dipping basket. Gatewell dipping is required during fish passage season, April 1–December 15, whether or not fish screens are installed. Dipping is not required during winter maintenance, December 16–March 31, when fish screens have been removed. Immediately before setting the head gates, spin the unit to move fish out of the draft tube.

**6.5.2.** If the draft tube is to be dewatered, operate unit at full load for a minimum of 15 minutes immediately prior to installing tail logs. If not possible to load, run unit at speed-no-load for a minimum of 15 minutes. Install the bottom two tail logs side-by-side prior to stacking the remainder to minimize risk of sturgeon entering the draft tube before dewatering. This is necessary for both scheduled and unscheduled outages.

**Comments**:

**Record of Final Action**: