# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 20TDA008 – Spillbay 9 Footnote

**Date Submitted**: 1/16/2020

**Project**: TDA

**Requester Name, Agency**: Scott Bettin, BPA

**Final Action: APPROVED 1/23/2020**

**FPP Section**: Table TDA-7. The Dalles Dam Spill Patterns.

**Justification for Change**: Adds specificity regarding the status of spillbay 9 to the footnote in the spill pattern table. In the table, spillbay 9 is highlighted red but doesn’t say why.

**Proposed Change**:

Add to footnote b in Table TDA-7.

Table TDA-7. The Dalles Dam Spill Patterns for Juvenile Fish Passage at 40% of Total Project Outflow.S*ee notes at end of table*.

1. Spill (kcfs) is calculated as a function of total gate opening (ft) at forebay elevation 158.5 feet (revised July 2012).
2. 230BHighlighted spillbays are operationally restricted because of structural or wire rope issues, and will be used only if needed for dam safety. Spillbay 9 cannot be used due to the trunnion pin failure in 2009.
3. 231BUniform spill patterns are critical to increasing juvenile fish survival through the tailrace. Uniform pattern fixed spill rates will result in hourly spill % within ranges in table.
4. 232BTDA minimum generation requirement = 50 kcfs. Therefore, 40% spill is not achievable at total river flow < 84 kcfs (i.e., minimum generation operation).
5. 233BAt certain flow ranges, spill could exceed ±1% of target spill of 40%. At total river flow 92,250–161,000 cfs, spill may range from 38.6–41.4% (up to ±1.4% of the 40% rate).
6. 234BMinimum gate opening is 4 ft. At forebay elevation 160 ft, maximum gate opening through bays 1-8 is 14 ft, thus higher bays will be utilized prior to opening any of bays 1-8 more than 14.0 ft. At lower forebay elevations, gate openings can be increased up to 14.7 feet before utilizing higher bays.
7. If gate openings greater than shown in table are needed, to the extent feasible, incrementally increase gate openings. If all available spillbays are fully open and more flow is needed to limit pool surcharge, use restricted spillbays in following priority order: 10, 11, 13, 16, 18, 19, and 23. Fully open each bay as needed before moving to next.

**Comments**:

1/23/2020 FPOM FPP Meeting: FPOM requested adding more specificity to when the failure happened to highlight how long it’s been.

**Record of Final Action**: APPROVED at the FPOM FPP meeting 1/23/2020.