

**USACE Portland District (NWP) FFDRWG Update Form**  
**June 1, 2017**

**PROJECT INFORMATION**

Project Title	Turbine Survival Program
SCT Reference Number	
Project Manager (PM)	George Medina (NWP, 503-808-4753)
Technical Leads (TL's)	Laurie Ebner (503-808-4880)/Martin Ahmann (509-527-7538)
Biologist/Coordination	Jon Rerecich (NWP, 503-808-4779)

**PROJECT DESCRIPTION**

The USACE Turbine Survival Program, using field studies, laboratory studies, as well as physical and numerical hydraulic models, has been working to identify the best operating conditions for juvenile salmonids passing through turbine units at USACE hydropower projects to reduce the probability of mortal injury for fish. The TSP recommends a target operating range for improved fish passage at most USACE FCRPS hydropower projects and recommends additional research and analysis. In addition, the strategy used for the new Ice Harbor turbine design is being applied to future turbine rehab programs in the FCRPS.

**CURRENT SCHEDULE**

TSP Milestones:

- B1/B2 Report Complete: ~ 20 Nov 2017
- The Dalles Model baseline testing complete: ~~ April 2018
- BIT Report update: ~~ 31 Dec 2018

**PROGRESS AND KEY ISSUES (List)**

Funding for continued ongoing PDT support:

- NWD agreed to fund TSP for the remainder of FY17 and FY18
- It was agreed that the TSP provides value for the region. PDT technical expertise is often sought out for all manner of turbine fish passage (e.g., blade block/cavitation recommendations, powerhouse operations and the need for spin reserve at The Dalles, etc.,
- BPA is a candidate that was mentioned as a possible source for funding. No progress on that effort yet.

**FFDRWG REVIEW NEEDED AT MEETING? (If YES, list discussion topics below)**