

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE - 19FOS07 Fish Passage Spill Operations

COORDINATION DATE - 19 September 2019

PROJECT - Foster Dam

RESPONSE DATE - 27 September 2019

Description of the problem – The Foster Fish Weir is out of service until design improvements are complete. Therefore, the only route for downstream fish passage is through the turbines or spillway. The turbines are the primary route for water and fish to pass the dam. The spillway is only normally operated to pass excess water. The Fish Weir was operated during fall months (mid- October – mid-December) as a safe surface route for downstream migrating fish, mainly subyearling Chinook salmon. Post construction evaluation of the new Fish Weir during 2018 indicate a high rate of injury and mortality to fish passing the weir. The Foster Fish Weir PDT is evaluating design improvements to the reduce injury and increase survival of fish passing the weir. Because of the high rate of injury and mortality, the new Fish Weir was taken out of service during 2019 and will remain out of service until the design improvements are complete.

Type of operation required – Interim nighttime spill operations for safe downstream fish passage. The proposed operation of Spill at night with limited turbine operation for Station Service generation (electrical power for Foster Project operations) and full operation of the turbines (no spill) during the day would be beneficial for safe fish passage. This interim special operation is similar to the operation during spring 2019 for interim fish passage. This request requires two operations:

- 1) Operate Spill Bay 3 at night (1900 hrs. - 0700 hrs.) and operate turbine unit 1 only for Station Service generation.
 - 2) Operate the turbine units during the day (0700 hrs. - 1900 hrs.), with full generation.
- No spillway operation, unless spill is required to pass excess water.

This proposed operation will start at 1900 hours on 15 October, with Spill operations and Station Service. Then, the spillway will be closed at 0700 hrs on 16 October and the turbines will be operated, and this night/day operation will continue through 15 December 2019.

Impact on facility operation – The turbines would not be operated at full power generation during nighttime hours; instead only turbine unit 1 would be operated for Station Service.

Dates of impacts/repairs – Approximately 15 October – 15 December 2019

Length of impacts/repairs – Approximately two months

Expected impacts on fish – No expected negative impacts on fish. Instead, this operation would improve downstream fish passage.

Comments from agencies –

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

From: Kelly Reis [mailto:Kelly.E.Reis@state.or.us]
Sent: Tuesday, October 01, 2019 9:26 AM
To: Walker, Christopher E CIV USARMY USACE (US)
<Christopher.E.Walker@usace.army.mil>
Cc: Elise X Kelley (elise.x.kelley@state.or.us)
<elise.x.kelley@state.or.us>; Anne Mullan (anne.mullan@noaa.gov)
<anne.mullan@noaa.gov>; 'Kelly Reis' (kelly.e.reis@state.or.us)
<kelly.e.reis@state.or.us>
Subject: [Non-DoD Source] RE: WFPOM: 19FOS07 Fish Passage Spill
Operations

Thanks, Chris.

ODFW supports this operation (as described in 19FOS07 Fish Passage
Spill Operation) to benefit fish passage at Foster Dam.

Thanks for the coordination.

Kelly

Kelly Reis

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NMFS supports operation – W-FPOM meeting audio

Final results –

Operation implemented as coordinated

Please email or call with questions or concerns.

Thank you,

Chris Walker

NWP Operations Division Fishery Section

Willamette Fish Operations Coordinator

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