## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 05 November 2019 Willamette Fish Facility Design Work Group meeting.

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The meeting was held in the Fireside Conference Room, USACE Block 300, Portland, OR. In attendance:

On the phone: Eppard, Hudson, Khan, Loffink, Murauskas, Piaskowski, Pierce, Reis, Schwabe, Skiles, Steere, Weiland and Ziller.

## **Meeting Purpose:**

Finalize previous meeting notes. Provide an update on status of active design projects, a summary of the Cougar 2.0 workshop, and discussion of the internal hydraulics of the Cougar FSS.

1. Final decisions or recommendations made at this meeting.

- 1.1. The edited October minutes are approved.
- 2. All supporting documents for this meeting can be found at: http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette\_Coordination/Willamette% 20FPT/.

Document	<b>Review Dates</b>
Foster Ladder Draft Assessment Report	Comments due 27 NOV
Foster DSP 60% Plans and Specs	January
Cougar physical model construction	February
Cougar DSP 2.0 50% report	January
Detroit SWS 60% Plans and Specs	January*
High Head Bypass 30% report	Comments due 29 NOV

3. Upcoming Review Dates

\*This report may be pushed back due to funding.

- 4. Updates on active design/construction projects
  - 4.1. Fall Creek AFF [pictures]There are some technical challenges while trying to do the pipe lining because of a 90° turn in the water supply pipe. The tool (called a centralizer) broke as it was run through the pipe. [A picture was shown]. The centralizer has been fortified during the off season to prevent these types of brakes. The lining from the water supply pipe chipped off and collected on the screens at the entrance to the fish facility during this past season. The first lining layer is still intact but the second layer is the one that came off. Due to difficult access, the contractor has had to remove sections in order to get their equipment into the pipe. The contractor is on site and the work is expected to go through the end of February 2020. A picture of the separator screen, clogged from the chips was shown. The flow over the screens is ~211-213cfs.
  - 4.2. Cougar DSP 2.0 The brainstorming meeting was 23 October, led by the contractor, Tetra Tech. The PDT does not have the draft minutes yet. The group discussed four alternatives but one was already thrown out. The 50% report will be submitted by the contractor in December; the agency review will be in January. Mullan asked what the 50% report means. The 50% will be starting the development of each alternative. Alternatives will be narrowed down between the 50 and the 90 and developed further. After the 90% report, then only the best alternative will developed fully. Fielding will send out a doodle poll for a 50% review meeting with dates ranging from 9-12 December.
  - 4.3. Cougar DSP The PDT found some anomalies in the secondary channel from the physical model trip back in January. The model not scaled for the secondary channel but due to the presence of standing waves, the PDT wanted to go back and look at the calculations. The velocities in the secondary were not as high as they had expected. The team looked at what they could do within the current foot print and what modifications were necessary to the FSS. The team came up with three alternatives. Alternative 1 would keep the same footprint of the FSS and change the internal geometry of the secondary channels. Alternatives 2 and 3 would require increased length to the FSS. The PDT liked the first alternative the best with a new max of 6.3fps in the secondary. The physical model has been broken down and is stored at the US Moorings.

- 4.4. Detroit Temp Control and DSP The PDT has had to reconvene to discuss how to use the limited funding. The 60% milestone for P&S might need to be pushed back from January. The team has decided to prioritize the EIS, the NEPA process, the penstock bifurcation and some above water features. The IEPR (independent external peer review) for the review of FSS and SWS DDRs has started. Janes has sent out a doodle poll for a meeting on the analysis for the blasting impacts. The PDT is continuing to work on addressing the comments from the past reports.
- 4.5. Foster AFF ladder Improvements The 90% EDR review is underway and comments are due 27 November. The team is working on a targeted PFMA (potential failure mode analysis) with the dam safety team because the preferred alternative creates a new hole in the dam. Working with the risk management center will help with the necessary documentation to continue to move the project forward. Mullan asked if there was already a hole in place that could be used. Budai confirmed that there is a hole in the valve room but the pipe is not the right size. Retro fitting would cost more and the PDT would prefer to make a new hole.
- 4.6. Foster DSP Fish Weir Design Improvements No new update. The team is still waiting on the hydrologic modeling to review the plunge pool behavior. They do not want to send out the report without this key information. The report will not be available until at least January for review. There are no changes in the design just waiting on the confirmation from the modeling.
- 4.7. High Head Bypass The 30% report was sent out and comments are due 29 November. The 60% report should be complete in December with an agency review in January. Khan sent out the alternative matrix with the report.

## 5. Next Steps

5.1. Next WFFDWG meeting currently scheduled for December 3.