CENWP-OD 06 August 2019

MEMORANDUM FOR THE RECORD

Subject: Draft minutes for the 06 August 2019 Willamette Fish Facility Design Work Group meeting.

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

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| **Last name** | **First Name** | **Agency**  | **Email** |
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On the phone: Hudson, Kelley, Mullan, Pierce, Royer, Scott, Weiland and Ziller.

**Meeting Purpose:**

Finalize previous meeting notes. Provide an update on status of active design projects.

1. Final decisions or recommendations made at this meeting.
	1. The July meeting minutes are pending on Jundt’s comments.
2. Upcoming reviews

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| **Document** | **Review Dates** |
| Foster DSP 60% EDR | Closes at the end of August |
| Foster Ladder Draft Assessment Report | October |
| Cougar DSP 60% Plans and Specs | August |
| Cougar physical model site visit | final visit 14 August |
| Detroit EIS public review | Closed 23 July |
| Detroit SWS 30% Plans and Specs | September |
| High Head Bypass 30% report | Late September |

1. Updates on active design/construction projects
	1. Fall Creek AFF – The contractor put a camera into the pipe. The coating right next to the steel is intact. The contractor tried add thickness to the liner by adding a second coat of epoxy but it is this additional coating that is coming off. ACTION: Richards will take screen shots of the video and send them to Khan. The follow-on work starts this fall.
	2. Foster AFF ladder Improvements – The PDT has been working on the alternatives. The team has ruled out the operational change alternatives and has four left that are structural changes. There are two options for going through the dam and two intake choices. The first draft of the report is due on 16 August and will go out for review soon after. Royer said that there are times of the year when they have structural limitations on how much they can warm up the ladder. During colder years, the temperature targets will be adjusted. Budai said that the August date is for an internal review and the WFFDWG review will be in October. The report needs to be finalized in December.
	3. Foster DSP - Fish Weir Design Improvements – The PDT is working on the hydraulic modeling to verify the conditions of the plunge pool. Sacramento District has a better 3-D flow model and Portland is using their license to run the model. The team is still thinking Obermeyer weirs is the best choice but they want to verify with a model first. The 60% EDR draft is out for review currently and the comments are due at the end of August.
	4. Cougar DSP –Fielding said that the final model visit is 14 August and they will make videos to share for anyone who can’t make it.

[Presentation] Tarbox gave an overview of the 60 % Plans and Specs and what to expect in the 90%. First, she gave a review of the current design for the project. The Plans and Specs document is 2k pages. It will have to go through Amerdec or another way other than email. Khan requested that everyone open immediately to know if there are problems with the document. Pierce asked about the new velocities in the secondary area but the flow calculations are still being worked on. Tarbox said the main focus of this group will be volume 5 and possibly volume 6. Volume 5 is the FSS including fish sorting and ballast information. Volume 6 is the hydraulic connection to the temperature control tower. There are drawings that are still outstanding within the document that will be in the 90%. Only drawings or specifications that say 30 or 60% will be in this package. There were two systems for transporting fish and debris but the PDT determined that they can combine the rails into one long monorail system. The restrooms will be a separate floating facility. The final details of sizing of the FSS layout will be in the 90% not in this 60%. Tarbox showed a 3-D model of the facility. Mullan asked what the path is for the lander. Fielding said it was the same as the amphibious vehicle. The PDT was considering a boom truck to pick up the pods from the lander but the outriggers may not have flat locations to prevent tipping. A hook truck might be better (similar to a truck that picks up a dumpster). There will be a PIT Tag detector for juveniles after the adults are separated from the juveniles. It is not currently in the Plans and Specs document but it will be added. Since the only PIT tagged fish should be during the performance testing, the detector is temporary and there is only one. Usually there are two detectors for efficiency in higher flow situations. Adults will be wanded for PIT tags since they are not expecting a lot. They do not have space for a full flow PIT detector. A sampling tank is a circular tank with a divider. Khan suggests opening the Amerdec file right away in case there is an issue. There will be a 30 day comment period on the Plans and Specs.

* 1. Cougar DSP 2.0 (new PDT) – This effort is to look at the Cougar fish passage situation if there was no hydropower to consider and this work will be contracted out. Once the contract is in place, a special brainstorming meeting is going to be scheduled. There are three different teams to look at the Cougar issues. Reis asked when we will know if hydropower is a consideration. Ament doesn’t know but they still need to move forward. The FSS would still work without hydropower but the PDT would like to know if there is a cheaper solution for fish passage. Mullan asked about the flood control operations at Cougar and if the COE would maintain the same standard. Ament said that the COE would maintain the current status. Ament doesn’t know if the in the original EDR, any alternatives were discussed that didn’t have hydropower since it is an authorized purpose.
	2. Detroit Temp Control and DSP – The PDT is wrapping up the comments on the two DDRs and working on getting an AE contractor for the IEPR (Independent Expert Peer Review).The IEPR will take a month. The SWS 30% Plans and Specs is out for internal review and will go out the WFFDWG group in early September. The COE received 18 correspondents on the EIS which have individual comments within. The next step is an internal peer review for the EIS. Kelly is working with Mullan on blasting impacts and what mitigation is available. Kelly will send out a doodle poll to include ODFW and USFWS on the blasting impacts conversation as well. The final report will include the responses to the IPR as well.
	3. High Head Bypass – (Woolbright) [Presentation] Ament said that the contract specified that the contractor has to work on the top six alternatives from the charrette for the 30% report. This presentation explains the top six alternatives that will move on. The bypass system is to replace the trap and haul system that can still connect to the FSS, operate over the full operational range and meet all authorized purposes. The outfalls are not defined at this point. Alt 1 - a helical shape to dissipate the energy and then it would connect to a bypass pipe. Alt 2 – a dual fish lock with multiple inlets. Alt 3 – vertical conduit with multiple inlets. There is an existing tower that may have some useable infrastructure. Alt 4 – a telescoping pipe with a single outlet. Alt 5- multiple ports through the dam in 25’ interval like Green Peter. Alt 6- a single fish lock but it would have a lot of energy to dissipate. ODFW had a proposal of operational changes with an early drawdown but this alternative doesn’t meet the criteria of operating over the full range. This alternative will be looked at internally since it is now outside the scope of the contract. This would be a hybrid system with some bypass and some trap and haul. The 30% report will be out the end of August and out for review late September.
1. Next Steps
	1. Next WFFDWG meeting currently scheduled for September 3 – day after Labor Day
	2. Upcoming reviews – Foster fish weir, Cougar Plans and Specs next week, Foster ladder in October; Detroit 30% SWS Plans and Specs in September.