**Meeting Date:** 3/29/2018 9:00 AM

**Location:** Bonneville Dam Security Office / Auditorium

**Link to Outlook Item:** *click here*

**Invitation Message**

**Content**

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| <<2018-29-03 FFDRWG agenda.docx>> |  Added by Walker, Ricardo W CIV USARMY USACE (US)  Attachment from Outlook  |
| <<2018-01-04\_FFDRWG draft minutes.docx>> |  Added by Walker, Ricardo W CIV USARMY USACE (US)  Attachment from Outlook  |

**Participants**

Walker, Ricardo W CIV USARMY USACE (US) (Meeting Organizer)

Studebaker, Cynthia A CIV (US)

Eppard, Matthew B CIV CENWP CENWD (US)

Royer, Ida M CIV USARMY CENWP (US)

Fielding, Scott D CIV (US)

Rerecich, Jonathan G CIV USARMY CENWP (US)

Neuenhoff, Rachel D NWP

Bissell, Brian M CIV USARMY CENWP (US)

Cordie, Robert P CIV CENWP CENWD (US)

Zorich, Nathan A CIV USARMY CENWP (US)

Bob Wertheimer (CENWP)

Petersen, Christine (BPA)

Morrill, Charlie (WDFW)

Scott Bettin (BPA)

Siena Lopez-Johnson (BPA)

Trevor Condor (NOAA)

Tom Lorz (CRITFC)

Eric VanDyke (ODFW)

Gordon Axel (NOAA)

Gabriel Brooks (PSMFC)

Alan Brower (PSMFC)

Notes

**Actions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Action ID | New vs. Ongoing Action | Date Requested | Description | Champion | Due Date |
| 1 | NEW | 29-Mar-18 | Site Visit: TDA East Fish Ladder / Adult LR Trap | R. Walker | end-April |
| 2 | NEW | 29-Mar-18 | BO LR Wetted Wall - Ops Plan | R. Walker | end-April |
| 3 | NEW | 29-Mar-18 | BO LR Wetted Wall - Pump Alternative | R. Walker | end-April |
| 4 | NEW | 29-Mar-18 | BO LR Wetted Wall - CRITFC field crew availability | R. Walker | end-April |
| 5 | NEW | 29-Mar-18 | JDA Turbrine - 60% Report | J Rerichich | end-May |
| 6 | NEW | 29-Mar-18 | JDA ERDC Model Trip - Agenda | S. Fielding | mid-April |
| 7 | NEW | 29-Mar-18 | JDA ERDC Model Trip - Invite TDY | S. Fielding | mid-April |
| 8 | NEW | 29-Mar-18 | JDA Avian Lines - Phase 2 O&M | J. MacDonald | end-April |
| 9 | NEW | 29-Mar-18 | Dalles Rehab Report | J Rerichich | end-April |
| 10 | NEW | 29-Mar-18 | BO Major Rehab Report | J Rerichich | end-April |
| 11 | NEW | 29-Mar-18 | BO PIT Concept: Ice and Trash Sluiceways As-built Report | B. Eppard | end-April |
| 12 | NEW | 29-Mar-18 | BO PIT Concept: Present Findings from Spring 2018 | Axel and Brooks | mid-July |

**Agenda Topics**:

1. Reviewed and approved meeting minutes from 04 JAN 18 FFDRWG Meeting

1. Lamprey Passage Structure and Minor Mod (Walker)
	1. JDA LPS upgrades
	2. TDA east fish ladder adult lamprey trapping. Plan is being coordinated with the Lamprey Work Group.
		1. Key milestones:
			1. 05 April delivery
			2. 15 April install
		2. Action: (Walker) will schedule a site visit with key stakeholders; end-of April
	3. Wetted Wall (building off of discussions following the AM site visit):
		1. Discussion. J Rerecich: Recommend we operate (with no rooster tails) and then test different blocks while video monitoring (e.g., full flow at nite). Determine if it's feasible to operate the wetted wall under high flow (and different scenarios). T Lorz: CRITFC crews could manually change valves. An automated system would be ideal. T Condor: We'd be OK operating at higher flows, with splash, at nite. Key consideration: adversely - impacting listed steelhead. B Wertheimer: Would higher nite flows adversely impact sockeye? T Lorz: NOAA could inspect. T Condor: Recommend finding a flow we can all agree upon. Monitor and adjust if needed, e.g., if we see flows are adversely impacting steelhead. R Walker: Do we all agree that testing during nite time is a good approach? T Condor: Will video monitor be functioning? R Walker: Yes. Can we replace the pump to reduce velocity? B Bissell: We don't have access to a pump that could be operated continuously. Scott Bettin: Can you look into a different pump? Brian: Yeah. OK, but we'd have to install and change operations during installation.
		2. **Decision**. Test current condition. If adverse impacts to fish passage due to splashing, then test during nite time. Issue: Requires people to manually adjust day time and nite time pump / flows.
			1. Action: Walker will develop a plan (including opportunities to adaptively manage, make adjustments in future years). Plan will be coordinated with the Lamprey Workgroup; end-of April
			2. Action: Walker will look into automated pump technologies; end-of-April
			3. Action: Lorz will check whether CRITFC crews can adjust pumps (daily); end-of April

1. Bonneville B2 FGE, J Rerecich
	1. Key milestone: 16 April testing.
	2. Condor: How will you measure gap loss changes? J Rerecich: As long as there is no significant reduction over the operation range, we determined it would be acceptable.

1. Dalles AWS, J Rerecich
	1. Key milestone: 23 April flow testing. ~ 2 hr window of darkness (est. 0000-0200).
	2. T Condor: Are you measuring ladder differentials? J Rerecich: Yes

1. John Day Turbine, J. Rerecich
	1. Key milestone: 60% Phase 1a ATR end of early April - 15 May. Action: Rerecich will send 60% report to FFDRWG; (end of May, coincident with USACE DQC)
	2. Lorz: What is the rehab schedule? John: Modeling will start with Phase 1. We are also looking at Kaplan blades vs. fixed blade powerhouse configuration, construction schedule, etc.

1. John Day ERDC Model Trip (Walker)
	1. Trip 1: 23 April - 04 May
	2. Trip 2: May - 18 May
	3. Agendas - TBD. Action: Fielding will send agenda to FFDRWG members; mid-April
	4. Invitation to Travel: Who needs invitations for TDY orders? Lorz / CRITFC, Charlie / WDFW, Eric / ODFW. Action: Fielding will send an email request / reminder to confirm attendance; mid-April

1. John Day Avian Lines - Phase 2, B. Eppard
	1. Lorz: Who will fix them if something goes wrong / O&M? Eppard: The project / JD will O&M after they receive the O&M Manual. Action: MacDonald will follow-up on who / when the project takes on short-term and long-term O&M and report-out to FFDRWG; end-of April

1. Open Mic:
	1. Rerecich: Dalles Rehab. Alternatives that rose to the top: Oil filled Kaplan unit to allow a bit more flow and back-up AWS. One turbine is too big - this alternative was eliminated. Instead looked at a smaller operating alternatives. Action: Rerecich will send Dalles Rehab report to FFDRWG; end-of April
	2. Lorz: Is Bonneville Major Rehab Report done? Action: Rerecich will check-in on status of Bonneville Major Rehab Report and send to FFDRWG if completed; end-of April

1. PIT Development Concepts (Brooks / Axel)
	1. NOAA worked with PSMFC. (see PowerPoint slide deck)
	2. Add detection at PH1 Ice and Trash Sluiceway.
		1. Bottom mounted / flat plat antennae in bays 1A and 1B
		2. Floating antenna in bays 1A and 1B
		3. Flat plates for bays 3B, 6C and 10B
			1. Eppard: Did you consider putting an antenna(s) at outfall, or somewhere along channel. Yes. But the channel is not configured well to match an antenna configuration / contour. Action: Eppard will see if we can get a copy of the as-built channel design / contours of the Ice and Trash Sluiceway and send to FFDRWG; April
			2. Condor: Would prefer to see a pass thru system. Eppard: Could the antenna be placed on the backside of the gate? NOAA will consider placing an antennae on backside of the gate.
		4. Add second antenna to the B2CC Channel. Fin antenna's. Brower: Consider turbulence, dynamic flow. NOAA: Testing at Jones Beach (in the estuary). Will test for 45 days, starting 30 April. Studebaker / Condor: Have you considered a pile dike type design? NOAA: We could consider this and then make them rotatable, depending on flows, and prevent debris damage. Concern: would likely get lower detections because arrays are not continuous around entire circumference. Condor: could check design feasibility. Brower: could install a faring or protective shield on front end. Lorz: Concerned Jones Beach test site isn't equivalent to Bonneville forebay (velocity and debris load). Petersen: What is the increased detection rate expected to be at the corner collector? From 84-87% detection efficiency to a little more than 3% increase at corner collector and up to 100% at ice and trash sluiceway (VERIFY). Lorz: If you can get it to work off of the JBS, that would be ideal. NOAA: Would need to work out a proper anchor to do a real test this year. Action: Axel and Brooks will report back to FFDRWG at next meeting/ early July (standing FFDRWG agenda topic); July FFDRWG Meeting