

2022 Annual PTSC Meeting

February 7, 2022, 1:00pm, virtual meeting

Attendees: Brandon Chockley, Charles Morrill, Scott Putnam, Gabriel Brooks, Gordon Axel, Tom Pansky, Pat Keniry, Tiffani Marsh, Brady Allen, Jeff Fryer, Will Simpson, Sebastian Dudek, Nicole Tancreto, Phil Peterson, Tim Ludington, John Tenney, Sebastian Dudek, Craig White, Nicole Tancreto, Pat Monk

Action Items:

- Tiffani will send details about the facility gate information she currently obtains from M4 data files to PTAGIS
- Nicole will add the IPTDS configuration diagram instructions to the interrogation site request form
- Charlie will engage with FPOM to address the VFD noise source at Ice Harbor

PTAGIS Portland Office Update (John Tenney)

[Presentation](#)

Highlights:

- New website released in June 2021
- M5 collecting production interrogation data at the 25 non-SbyC PTAGIS sites
- General community release of M5 coming soon, including a version that runs on low-power Linux devices such as Raspberry Pi
- I5 released February 2022
- User survey showed generally high satisfaction with website, reporting system and P4

Scott asked about when the I5 video tutorial will be available. Nicole plans to release it early to mid-February and notify interrogation site stewards.

Tiffani asked about working with M5 files to obtain facility information. Facility operations will no longer be reported in data files, because they are being collected by the SCADA system. Facility operations will be available either through a report and/or the API. Tiffani will send details about the facility information she currently obtains directly from the data files.

PTAGIS Kennewick Office Update (Don Warf)

[Presentation](#)

Highlights:

- Upgraded the PIT tag rooms at the 25 non-SbyC PTAGIS sites to industrial PCs running M5, new PLCs, new HMIs, new UPSs
- LMJ is the first SbyC site to be upgraded and will run in production for 2022 season. Remaining SbyC sites to be upgraded over the next few years
- All remaining construction issues at the Lower Granite Spillway were resolved and it recorded over 250,000 unique tags in 2021

- BO2 Cascades Island Relocation project will be finished before 2022 season begins, new UMT and counting window antennas will replace the original weir orifice antennas
- BO4 slot antennas were replaced prior to 2021 season
- Developed prototype antenna for an automated gate at the Bonneville Ice and Trash Sluiceway
- Installed antennas to monitor the barge load lines at Lower Monumental, Little Goose, and Lower Granite prior to 2021 season

Charlie asked about the defining characteristics of industrial PCs. Don said they are stripped down, low power machines, with bare-bones version of Windows on a long-term service contract that doesn't need to be updated over the life of the contract, that may provide a decade of service, while being about the same cost as consumer PCs that have been used before.

Charlie asked when Don thought the prototype ice and trash sluiceway antenna could be deployed. Don said the Corps wanted to see a more complete prototype before proceeding with the project.

Tiffani said that the Corps has an hourly flow website that can give you a ballpark estimate of when the Lower Granite RSW gate is opening and will send a link to Don. Brandon let us know that it is a few hours behind real-time.

Don asked the Committee what they would like to do about the 25 minutes per day that Ice Harbor goes out of detection due to noise from the VFDs that control the lock gates. Charlie will continue to encourage the Corps to act on it and will follow up with them at FPOM. Don said that the issue is fixable, is not a big expense, but it will take a lot of man hours from Corps personnel.

Charlie asked if anyone has requested improved juvenile detection at Prosser. Pat Monk said that a high proportion of fish passing Prosser go through the bypass, so there is no need to add detection over the spillway.

[NOAA PIT R&D Update \(Gabriel Brooks\) Presentation](#)

Highlights:

- Developed prototype multiplexor system with Biomark in 2021, expecting delivery of two final units in 2022
- Modify TWX antennas after 2022 season to incorporate the new IS1001-Mux
- Reinstall PD7 interrogation site on pile dike in the estuary
- Install a new system on pile dike 57
- Complete synchronization upgrade for GRS
- Live fish test planned for March 2022

Gordy gave some details on the plans for live fish test:

- Fish from Clearwater Hatchery picked up March 15, tagged March 16, released on March 17
- Release on the north side, middle and south side of the entrance to the RSW.
- 1000 12mm tags, 400 9mm, and ~150 half-telegram tags released in each location
- Partner with Ken Tiffan, USGS, to use some 8mm tags that are used upstream.

- The middle release location will be used to release groups of fish to see if there are any issues with tag collision

[IPTDS Subcommittee Update \(Gabriel Brooks\)](#)

Highlights:

- Ratified a site configuration diagram standard and instructions

Nicole and Gabriel will plan the next meeting.

Charlie asked if all instream sites send data directly to PTAGIS or if they go through Biomark. John said that some groups contract with Biomark to collect the data and send the PIT tag observations to PTAGIS. Charlie then asked if we have the software to make it so all sites could submit directly to PTAGIS. John replied that M5 and I5 can be used to submit data directly to PTAGIS, but only tag observations, none of the transceiver diagnostics.

[Increase in Juvenile Detections \(discussion\)](#)

Charlie said that the increase in spill and resulting decrease in detections in the juvenile bypass systems on the mainstem, is causing survival estimates to be less precise. He considers the need to increase detections at McNary, Bonneville and in the estuary to be a high priority for the region.

Tom Pansky commented that he's heard others discuss use of more acoustic tags and eDNA.

Charlie replied that acoustic tags are expensive and they are not the type of tags we can use in a system wide basis.

Scott agreed with Charlie's statements about increasing detection at McNary, Bonneville and below, because it looks like increased spill will be continued.

Brandon commented that fewer detections at juvenile bypass systems could be seen as an accomplishment of the goal to have less fish to go through the powerhouses. Also pointed out that 2020 and 2021 were low flow years which also affected those lower detections.

[PIT Tag Procurement Update \(Tim Ludington\)](#)

Tim briefed the Committee on PIT tag procurement for the Fish and Wildlife Program.

[Wrap Up](#)

Charlie volunteered to remain the Committee chair and Tiffani agreed to remain the co-chair. Pat agreed and Scott seconded.