CENWP-ODT-F 08 July 2021

MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 08 July 2021 FPOM meeting. The meeting was held via WebEx. In attendance:

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1. Final decisions or recommendations made at this meeting.

- **1.1.** June meeting minutes were approved.
- **1.2.** BON PH1 gill net. FPOM is in agreement that the sooner the net can be removed, the better.
- **1.3.** Columbia Basin Avian Group. This should be a task group, with updates provided here. CRITFC, USFWS, and NOAA Fisheries will chair the task group.
- **1.4.** FPOM concurred with LMN going to every other day sampling at temps over 70F for 2021, starting immediately. The FPP change form will be discussed and implemented for 2022.
- **1.5.** Surface spill closure decision delayed until 9 July TMT meeting.
- 1.6. 21AppB003 Additional Transport Truck. Approved.

2. Action Items

2.1. NWW

- **2.1.1.[July 21] LGS trash shear boom. ACTION:** St. John will send the different concepts to FPOM when he gets them.
- **2.1.2.[July 21] LWG Doble testing. ACTION:** Holdren will clarify the FPP language in Appendix A 9.1.4.
- **2.1.3.**[July 21] Warm water sampling protocols. ACTION: Morrill will schedule a special meeting to discuss the change form. He is looking at scheduling for the week of 18 July.
- **2.1.4.**[July 21] Warm water sampling protocols. ACTION: St. John will draft a memo detailing this modification.

2.2. NWP

- **2.2.1.**[August 20] TDA Turbine Dewater Sturgeon SOP (6' and greater) ACTION: van Dyke will check in with new sturgeon lead for ODFW. van Dyke couldn't reach his sturgeon lead and he would like to remove this from the agenda at this time. He is ok with the SOP as written.
- **2.2.2.[July 21] JDA trashracks. ACTION:** Fielding will share the schedule when he gets it. STATUS: Contract was awarded on 29 June with site work anticipated to occur from 19 25 April 2022. Regular updates will occur as information becomes available.
- **2.2.3.**[July 21] Ringold avian counts. ACTION: Morrill will report back on the progress of the status review in August.
- **2.2.4.**[July 21] **O&M** critical needs spreadsheet. ACTION: FPOM will send ranks to Mackey, who will compile for discussion at the August FPOM meeting.

2.3. Completed Action Items or to be discussed later in the agenda

- **2.3.1.[2019] TDA East Exit boundary**. This area is in Washington's waters and out of OSP's authority. New boundary has been put in place and fishermen are respecting it. Morrill reports it will be part of the permanent regulation next year.
- **2.3.2.[June 21]** Invasive piscivorous fish control opportunities. ACTION: McClain will help Thompson set up task group.
- **2.3.3.[June 21] 21 LGS 06 MOC Closure of Spillbay 8**. ACTION: Peery will check back with project about specific dates and get back to FPOM. Work did not occur.

2.3.4. [June 21] 21 MCN 05 MFR OR AWS Fish Pumps OOS ACTION: Peery will ask for more detail and develop a contingency plan. Email sent to FPOM with additional information.

3. Updates

3.1. NWW Updates

- **3.1.1.** Upcoming maintenance/construction/research activities.
 - **3.1.1.1.** 21MCN05 MFR OR AWS Fish Pumps OOS. On track. Will have (hopefully) fish pump 3 completed by the end of September.
 - **3.1.1.2.** 21MCN06 Modified spill pattern for TSW removal. Need a change form for the new plan.
 - **3.1.1.3.** 21IHR05 MFR Unit trashrake problems. No updates. St. John will send any update on the timeline when he gets that from the Project.
 - **3.1.1.4.** 21IHR07 MOC Floating Guide Wall Maintenance. No update.
 - **3.1.1.5.** 21LGS01 MOC Unit Priority Change to Facilitate Debris Removal. The Project will update the trash shear boom. Looking at a variety of designs. Lorz asked about whether the design is a re-design or a modification. St. John said it is a modification. Lorz suggested there may be an opportunity for CRFM funding. **ACTION:** St. John will send the different concepts to FPOM when he gets them.
 - **3.1.1.6.** 21LGS06 MOC Closure of Spillbay 8. Cancelled.
 - **3.1.1.7.** 21LGS07 MOC Unit Outage for T2 A Bushing Replacement. Planned for the 13 July.
- **3.1.2.**MCN spillway crane repairs. Crane 6 parts delayed in shipping. Lorz requested an update on schedules at the next FPOM.
- **3.1.3.** Invasive species discussion.
 - **3.1.3.1.** Juvenile shad removal from samples. St. John was left with notes that the next steps are up to ODFW. van Dyke said this is at the ODFW policy level at this point.
- **3.1.4.**Congratulations to Scott St. John. He has been selected to fill Chris Peery's old position. Chuck Barns is the Project bio for LGS. Axel Otis is the acting Project bio for LMN.

3.2. NWP Updates

- **3.2.1.**Upcoming maintenance/construction/research activities.
 - **3.2.1.1.** 21BON001 MOC Navigation Lock 1 (old navlock) Bridge Replacement (Trachtenbarg) scheduled for CY2023.
 - **3.2.1.2. 21BON010 MOC ITS Closure for Gate Inspection.** Moving the inspection to October. Lorz was supportive. Conder was in agreement as well.
 - **3.2.1.2.1.** Bettin asked if that would be a good time to close to remove the gill net out of the channel. Derugin said he is checking with maintenance to see if that can be done next week. Conder asked if the net is catching fish. Derugin wasn't sure. **FPOM is in agreement that the sooner the next can be removed, the better.**
 - **3.2.1.3.** 19TDA04 MOC Crane rail Replacement winter (20/21).
 - **3.2.1.4.** 20TDA10 MOC PUD Smolt Bypass Extended Outage.
 - **3.2.1.5.** 18JDA02 MOC Trash rack replacement. Contract awarded in June. Building a new set. Will take an old set to sandblast and keep working down the powerhouse. Priority units will be scheduled for winter maintenance, to the extent possible. Lorz asked if there is a schedule for the units that could be shared. **ACTION:** Fielding will share the schedule when he gets it. The current plan is for one trash rack and then a new contract will be awarded.
- **3.2.1.6.** 20JDA04 MOC STS crane replacement. Start in Fall 2022 with completion in 2025.
- **3.2.2.**BON Cascade Island PIT tag antenna completion. Derugin said the UFR has been approved. Warf and Morrill were very happy to hear that.

- **3.2.3.**BON Aqui-S update. *Update: Letter sent from BON Project to researchers detailing ground disposal for 2021.* CRITFC is no longer seeking a permit. Lamprey PDT also not a reasonable option at this time. Lorz said CRITFC will probably send a letter asking for a permanent fix. Ground disposal likely for 2022.
- **3.2.4.**TDA AWS debris management. (Rerecich FC, Medhi Rashani TL, Kovalchuck temp PM)
- **3.2.5.**TDA trunnion pin. Via email from Michael S Colesar, on 1/28/2021 "Gate 9 trunnion would be part of a larger project to completely rehab Gates 1-9. SAP shows Start in 2031, Construction 2034"
- **3.2.6.** JDA north pumps. Pump 4 remains OOS.
- **3.2.7.** JDA spill bay 10. In manual operation, have not figured out remote operations from the control room, likely manual most of spill season. No updates.
- **3.2.8.** JDA elevator #4. Contractor will look at why the elevator doesn't stop at the top floor.

3.3. NWS (Seattle) –

- **3.3.1.**Upcoming maintenance/construction/research activities. Nothing for this meeting.
- **3.3.2.** Albeni Falls Dam. Cousins plans to visit Albeni Falls to discuss designs for the fish passage facility. Ebel asked if the Libby crane repairs have been completed. This would allow for temperature controls. Cousins wasn't sure but would get back to him. Bettin added that the crane has been repaired and is fully functional.
- **3.3.3.**Chief Joseph Dam. No updates this month.

3.4. Research/FFDRWG updates.

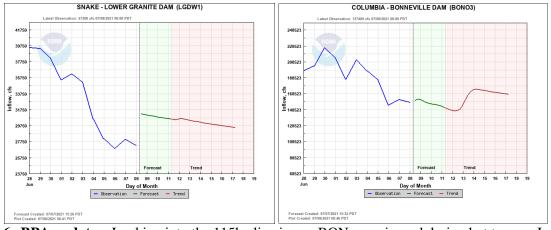
http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html

- **3.4.1.NWP FFDRWG.** No updates. Next meeting scheduled for 5 August at 0900.
- **3.4.2.NWW FFDRWG.** Next meeting is scheduled for 21 July from 1300 1500.

3.5. RCC update

Project	Previous Day Average Outflow (kcfs)	5 Day Forecasted Inflow (kcfs)	10 Day Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	28	31	30	30kcfs on 7/17 31kcfs on 7/8
MCN	169	143	164	143kcfs on 7/12 170kcfs on 7/13
BON	150	147	168	147kcfs on 7/12 174kcfs on 17/14

Table 1. NOAA Northwest River Forecast Center inflow forecast.



3.6. BPA update. Looking into the 115kv line issues BON experienced during hot temps. Is this an anomaly or a "new normal"?

3.7. Fish Count Program update. Counts are low but continue to flow. The contractor is doing well. Derugin will work with Wertheimer about counts at Washington Shore and the AFF. Lorz asked about counts of sockeye and what the fish counters are seeing. Wertheimer said there is an AAR at the end of the season. Quality control is a top priority and the contractor has worked on prepping the counters for the sockeye season. The contractor is counting within the contract criteria. Getting the best counts for fish managers to make the best management decisions is a priority.

3.8. Pinniped update

- **3.8.1.**Bonneville Dam. Daily point count. Zero currently counted.
- **3.8.2.** Willamette Falls. No update.

3.9. Lamprey update

- **3.9.1.**BON. CRITFC collection continuing; started on 28 June and have collected 2028 lamprey for translocation. LFS is operating at 50% and not catching any fish. Lamprey passage is picking up. CI LPS pump is getting repaired today. MacDonald asked if CRITFC had any recommendations for how to get the LFS to work better... or at all. McClain noted that the system seemed to perform better earlier in the season, when tailwater is usually higher. Conder notes that this system doesn't seem to be very effective for the amount of money spent on it. He suggested the reduced night flow may be more effective for passing lamprey.
- **3.9.2.**TDA. CRITFC just started collecting this week. Collected four fish so far.
- **3.9.3.**JDA. Both traps are operating. A temporary davit has been installed at the north ladder to lift fish from the trap. This will reduce the need to haul fish up the stairs. Silver said there was a late start at JDA, starting in July instead of June. The south ladder trap just started a few days ago.
 - 3.9.3.1. Smolt Monitoring Program. Porter asked what the update is for the SMP. BPA doesn't have an update from last FPOM. Sullivan said BPA contracting has been in contact with FPC and an official proposal should be coming. Cooper will check on the final proposal. Fielding will send a MOC as soon as official word comes through. Porter said the lamprey group will respond to the MOC when it comes out. CRITFC is concerned about getting a last-minute notification. Mackey stressed that decisions need to be made as soon as possible because the Corps will need to hire, or not, depending on what formally proposed and agreed to. Ebel said there are some moving parts that are complicating the proposal, for example, changes in costs of PIT tags and what that means for funding. Conder said NOAA is trying to get a better understanding of the PIT tag needs and the likelihood of meeting those needs. Morrill said Michele DeHart was supposed to brief FPAC yesterday. Cooper added that all of these pieces are being worked and a proposal will be coming. Porter talked more about needing others to be flexible to allow for the lamprey collection to accommodate research. Conder was agreeable to working with CRITFC on those issues.
- **3.9.4.**NWW. Juvenile strainer inspections are continuing.
- **3.9.5.**Lamprey Accords Task Group.

3.10. Avian updates

- **3.10.1.** LWG. Hazing ended on 30 June.
- **3.10.2.** LGS. Hazing ended on 19 June (25 gulls 6 cormorants).
- **3.10.3.** LMN. Hazing ended on 2 June.
- **3.10.4.** IHR. Hazing ended on 30 June. For all four Snake River projects, the bird numbers decreasing. Pelican numbers increasing moving downstream.
- **3.10.5.** MCN has about 100 pelicans that are actively working the shoreline and face of the powerhouse. They seem intent on adult shad. Had one pelican in the bend of the Washington ladder. About 100 gulls roosting on the navlock upstream wall. Five terns. Forebay grebes run about 10 60 individuals. They have been successfully feeding but

- their success will decrease as fish numbers decrease. Hazing ends 27 July. Not a lot of feeding occurring on the outfall but not sure what has been the cause of the decrease.
- **3.10.6.** Ringold. Wertheimer reported that there were about 50 100 pelicans/day feeding on the juveniles released from Ringold fish facility. There are no bird deterrents in place, at this time, so the only alternative are night releases. Morrill asked if this data is reported anywhere. Wertheimer noted that there isn't authority for hazing at the facility and he is just reported what was seen while he was there doing QA on the fish production contract. McDowell noted that there is not a need for a federal authorization to haze pelicans. Morrill said pelicans are going through a status review in Washington. **ACTION:** Morrill will report back on the progress of the status review in August.
- **3.10.7.** JDA. Upwards of 400 pelicans on the island and under the avian array.
- **3.10.8.** TDA. Morrill asked about an update of Miller Rocks. Lorz said that the point person is Bill Sharp, who is working within YN Natural Resources. Lorz will have an update from Sharp at the Avian Task Group meeting.
- **3.10.9.** BON. Wendler reported first grebe and a handful of cormorants and gulls. **3.10.10.**Estuary.
 - **3.10.10.1.** RMP fairly quiet. 40 100 CATEs. White Pelicans have pulled a couple of chicks off of Rice Island. No DCCOs.
 - **3.10.10.2.** ESI CATEs Off colony no eggs and minimal scrapes. On colony incubating but no chicks. No bald eagle flushes.
 - **3.10.10.3.** ESI DCCOs aerial imagery taken on 7 July. 40 nests estimated. About 50 several hundred pelicans (brown and white) on ESI. Krasnow asked if there is more white pelican activity in the basin. Tidwell has been reporting to aid WDFWs efforts to better enumerate the bird numbers. McDowell noted there is a census this year for American White Pelicans. She said there are colonies that are disappearing in the area around Utah but there are new colonies in areas north of there.
- 3.10.11. Columbia Basin Avian Group. This should be a task group, with updates provided here. CRITFC, USFWS, and NOAA Fisheries will chair the task group.

4. NWP/NWW Critical Fish Passage O&M needs.

- **4.1.** Langeslay provided an overview of how the O&M budget is planned and prioritized. He outlined the different funding lines Navigation, Hydro, Environmental, Flood, and BPA (Power). There is very little discretion in how the budget items get ranked now.
 - **4.1.1.** Work packages are created by the Projects and Districts. These are rolled up and sent to Division. The Division ranks everything and sends it to HQ. From HQ it goes to Army. Conditions, consequences, and legal risks play into how packages get ranked.
 - **4.1.2.**For the last several years the O&M budgets have remained flat. Common O&M (routine) items are usually funded every year. Specific work (non-routine) items are also submitted and those are funded as funds are available.
 - **4.1.3.**Langeslay explained that human life and safety is likely to be prioritized higher than ESA. Bellerud argued that just because an action isn't an RPA doesn't mean the proposed action isn't just as important to do. RPAs are imposed upon the Corps but proposed actions are what the Corps said they would do to maintain a non-jeopardy BiOp.
 - **4.1.4.**Lorz asked about the level of funding for the fish budget. Langeslay said there are changes each year but Corps budgets are submitted to full capability and we find out what is/isn't above the cut line. Asset management plans are being built for fish facilities and assets. This will help these work packages compete better and the prioritization will be easier to justify.
 - **4.1.5.**BPA budget. The Districts submit their top 15 non-routine items for Division wide prioritization. This includes capital (large cap or small cap) and non-routine expense (NREX).

- **4.2. Critical needs spreadsheet.** BiOp deadline is to have a list to NOAA by the end of August. FPOM will rank items by Project, and then by District, and then the two Districts will be combined. **ACTION:** FPOM will send ranks to Mackey, who will compile for discussion at the August FPOM meeting.
- **5. Doble testing.** Lorz suggested it may be better for fish to shorten the Doble testing schedule since temperatures are already very warm and reaching lethal levels.
 - **5.1.** Holdren updated FPOM on LWG Doble testing. T1 (U1-4) will be taken OOS during the day (0600 1900) through 13 August. T2 will be OOS from 16-17 August. LWG Doble testing is not expected to impact the temperature control pumps.
 - **5.2.** Lorz said the schedule will result in a need to release more water from DWK and, with the break in the Doble testing schedule, there will be a need for a couple more days of DWK flows. Conder was most concerned about the first week, T1. He asked what would happen during the weekend during the night hours. Holdren said the plan is to follow the FPP language, which T1 will be out for the first week, and only during the daytime hours.
 - **5.3.** This will be further discussed at TMT on 9 July. **ACTION:** Holdren will clarify the FPP language in Appendix A 9.1.4.
 - **5.4.** Hesse explained that there is NOT enough DWK water to cool the river and any extra time further impacts the length of time cool water can be provided. St. John said he will talk with Jon Roberts about modeling the written plan. Roberts said he will model the operation and finds these continued discussions hopeful. He believes we may find enough good ideas to successfully extend the cool water operation through September.

Updated after the meeting - Doble testing will be completed as follows:

T1 (units 1-4) will be OOS from 0600-1900 hours daily August 9-12. Unit 5 will be operating at speed-no-load (about 5 kcfs) during this time.

Units 1-4 will be operating in unit priority order daily from 1900-0600 hours August 9-12. T1 Doble testing will be completed at 1900 hours and units 1-4 returned to service in unit priority order August 12.

T2 (units 5-6) will be OOS August 9-17.

T2 Doble testing will be completed and units 5-6 returned to service August 17.

Both T1 & T2 will be OOS from 1600-1900 August 17 to return T2 to service.

6. Warm water sampling protocols. St. John showed the table of water temps for the Snake River projects. Conder agrees with temperature criteria but questions the 68F threshold rather than the 70F at the other facilities. Conder is concerned about the number of days that wouldn't have sampling due to temperatures. Chockley clarified that sampling would move to every other day so there would still be sampling, just not every day. Chockley would like to discuss this sooner than the August FPOM meeting. Wright has loaded it to the FPP website. **ACTION:** Morrill will schedule a special meeting to discuss the change form. He is looking at scheduling for the week of 18 July. LMN would like guidance for what to do now since temperatures are over 70F. Morrill questioned why 68F instead of 70F since BON and JDA are 70F. He said WDFW altered permits to allow sampling up to 70F. FPOM concurred with LMN going to every other day sampling at temps over 70F for 2021, starting immediately. The FPP change form will be discussed and implemented for **2022. ACTION:** St. John will draft a memo detailing this modification. Johnson said the MCN temperature limitations at 68F is due to the mortality increases that were seen at 70F. They went to 68F to give them some breathing room before mortality increased. Morrill suggested that 68F was appropriate when MCN was a transport facility. He said 70F would be fine for sampling. Johnson said that may be true but 68F works really well for MCN and he stressed that MCN doesn't need to

be identical to the Snake projects. He doesn't want to go back to the days of high mortality. He does not want MCN included in any change to 70F.

Updated after the meeting – Call to discuss warm water sampling protocols for IHR, LMN, and LWG scheduled for 1000 on Monday July 12th. You may join by phone (844-800-2712 access code 199 163 3034) or by clicking https://usace1.webex.com/meet/christopher.a.peery.

- 7. LWG Adult Trap Water Supply. Conder has concerns about the temperature issues in the Snake, running out of DWK water, and the impacts on the LWG adult trap in August. He wants to know if there are alternate methods for cooling the trap water to continue broodstock collection.
- 8. Surface Spill closures (NWW). Bettin suggested there may be a need to discuss early closures due to low flows. Lorz asked if Wright could tee this up for TMT tomorrow. Flow would be moved to the other spillbays. Ebel asked if there is any data on what this operation does to temperatures. Lorz and Bettin said there isn't but they also don't believe this action changes the temperatures... or if it did, it isn't measurable. van Dyke said this was looked at when the spray bars were installed so there should be info somewhere. Conder added that Ryan Laughery may have looked at this as well but Conder didn't recall anything alarming in any data. Lorz didn't think there was any forebay stratification research. This decision will be delayed until TMT tomorrow.
 - **8.1.** Wright shared a cheat sheet she had developed (image below).

	Dates	Previous day average outflow AND inflow forecast for next 3 days:		
IHR, LMN	June 21 – August 31	RELOW 30 kcfs = Close RSW	ABOVE 30 kcfs = Open RSW	
LGS *	August 1* – August 31	BELOW 35 kcfs = Close ASW	ABOVE 35 kcfs = Open ASW	
LWG **	n/a	n/a	n/a	

- * The Little Goose ASW may be closed before August 1 via FPOM coordination, per FPP section 2.3.2.7: "The ASW will not be closed before August 1 even if the low flow criteria are achieved to avoid impacting subyearling migration unless an adult passage delay is observed or due to unit operational constraints at low flow. Closing the ASW prior to August 1 will be coordinated through FPOM by CENWW-OD-T."
- ** Before 2020, the Lower Granite criteria were the same as IHR and LMN. In August 2020, TMT requested in-season adaptive management to keep the RSW open through August 31 to maintain PIT detection (see SOR 2020-5). FPOM supported incorporating this change in the 2021 FPP. If flow is too low to support both RSW spill (~7 kcfs) and minimum generation requirements (~12 kcfs), the RSW will be closed and the project will operate at min gen/spill the rest via non-RSW patterns.
- 9. Coordination/Notification forms (need concurrence/discussion)
 - **9.1.** 21LGS08 MFR Adult Chinook salmon mortality.
 - **9.2.** 21IHR08 MFR Unit 5 pre-maintenance testing
 - **9.3.** 21 IHR 09 MFR South shore AWS pump outage
 - **9.4.** 21 MCN 06 MFR Modified Spill Pattern for TSW Removal
 - **9.5.** 21BON012-24 MFRs for morts. Conder noted the tagged sockeye. Derugin noted that this year was the first year BON had high water temps AND the ladders were in shad mode. The increase in flows may have been a challenge for Sockeye and the warm temps didn't help. BON has switched out of shad mode a few days early (MFR coming). Conder's concern with switching out of shad mode is that shad may stack up and create a barrier. He understands the balancing attempt and would ask that BON Project Fisheries keep an eye on shad densities. Derugin switched out just a few days before shad numbers had dropped to fewer than 5000 shad/day. Derugin also had CRITFC go to warm water protocols a day or two early. Conder said he

- looked at the potential for split flows. Derugin said he is also going to look at split flows that account for shad numbers as well as salmon. Conder said the split flows for salmon is generally when spill has already ended so there is less risk of fallback. Lorz likes the direction the discussion is going and looks forward to discussing this after the season.
- **9.6.** 21BON025 MFR Unit Priority Order OCC for heat wave 115 support. BPA is investigating and will come back with more info next month.
- **9.7.** 21BON026- 36 MFRs for morts.
- **10. Fish Passage Plan:** The 2021 FPP went into effect March 1 and is available online at: http://pweb.crohms.org/tmt/documents/fpp/2021/
 - **10.1.** Pending Change Forms:
 - **10.1.1.** 21AppB001 LMN Condition Monitoring. Conder suggested the condition monitoring may not be appropriate in the transport section of the FPP. Wright suggested she could develop a separate section for condition monitoring for the 2022 FPP.
 - 10.2. New Change Forms:
 - 10.2.1. 21AppB003 Additional Transport Truck. Approved.
 - 10.2.2. 21AppJ001 Snake River Temperature Protocols. Meeting scheduled for
- 11. Task Group Updates.
 - **11.1.** Avian Task Group meeting (Lorz, McDowell, Krasnow)
 - **11.1.1.** http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Avian%20Hazing/
 - **11.2.** Task Group Condition Monitoring (Lorz & Sullivan)
 - **11.2.1.** http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/
 - 11.3. Task Group 15 Mile Steelhead Overshoots, TDA ITS operation dates. (Bellerud)
 - **11.3.1.** http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20ITS%20operations/
 - **11.4.** Task Group Invasive piscivorous fish control opportunities (Thompson).
 - **11.4.1.** First meeting will be after the August FPOM meeting.