

COLUMBIA RIVER TECHNICAL MANAGEMENT TEAM

August 14, 2024

Facilitator's Summary

Facilitation Team: Nancy Pionk & Colby Mills, DS Consulting

The following Facilitator's Summary is intended to capture basic discussion, decisions, and actions, as well as point out future actions or issues that may need further discussion at upcoming meetings; it is not intended to be the "record" of the meeting. Official minutes can be found on the TMT website: <https://pweb.crohms.org/tmt/agendas/2024/> Suggested edits for the summary are welcome and can be sent to Colby at colby@dsconsult.co.

Review Meeting Summaries & Minutes – TMT Members approved the official meeting minutes and facilitator's summary from the August 7 meeting.

Dworshak Operations – Willow Walker, Corps, reported on operations at Dworshak Dam (DWR), updates are posted to the TMT website. To begin, local temperatures in Lewiston ID, last week reached closer to normal with cooler nighttime temperatures; the hottest reading (yesterday) was still within normal range.

DWR is currently releasing 10.1 kcfs; releases will decrease throughout the day to 9 kcfs (below powerhouse capacity, no spill). Temperatures at Anatone and Orofino are in the low 70s to upper 60s F, which is helping to moderate temperatures at Lower Granite (LWG). Stratification in the LWG forebay has started to recover following the operation to relax the LWG tailwater criteria, with temperatures today evening out as expected and even cooling at the 15-meter mark.

Regional 10-day forecasts in the lower Snake and Clearwater area show heat coming down and some potential precipitation. Temperatures will reach the 90s but nothing in the 100s. Forecasted temperatures in Lewiston also show a relief from the extreme heat (100+ degrees F) seen throughout the summer so far. Forecasts show 80 degrees F today and tomorrow, moving into the mid-low 90s for a few days, then back to the mid-80s and low 90s.

Temperature modeling results show Anatone and Orofino water dropping yesterday with the cooler weather. Moving forward, the projected temperatures in LWG tailwater are expected to maintain at or below 68 degrees F with the water sent from DWR for the scheduled Doble testing window August 12-16. This spill has begun to turn off, with the project running below full powerhouse while able to maintain 68 degrees F at LWG.

Regarding water supply at DWR, following the temperature relaxation criteria (posted on the TMT website) and some cool weather, the project has saved about 2.5 days of spill to use for the remainder of the month, in addition to the 3 days already used for Doble testing.

LWG Doble Testing Update

Doug Baus, Corps, reported that the Corps was unable to execute the scheduled Doble testing at LWG for August 12-16 due to unforeseen maintenance issues associated with providing station service at the project. The Corps planned to use this pre-scheduled outage to conduct other high-priority maintenance operations within this same window as water from DWR was already sent. Notwithstanding its high priority, the Corps confirmed that this Doble testing is not able to be rescheduled and will be considered missed maintenance.

Salmon Managers requested more details about the maintenance replacing Doble testing and asked if the details could be recorded and distributed to regional managers. The Corps noted that although Doble

testing was not able to be completed, the Corps was still on track for completing the other maintenance activities that were scheduled, including the following: roof repairs, insulator cleaning, and additional monitoring for the installation of T1 and T2 oil monitoring equipment. The Corps confirmed that ladder cooling pumps are functioning properly. Finally, Chris Peery, Corps, noted that TMT Members can expect an MFR on what maintenance occurred during this outage distributed via FPOM in the next few days.

Operations Review - Reservoirs: Corinne Horner, Reclamation, reported on Reclamation projects:

- **Hungry Horse (HH):** the three-day average inflow to HH was 550 cfs, averaging 56% of normal last week. Temperatures are forecasted to be near normal with a chance of precipitation over the weekend. Current outflows are 3,200 cfs and midnight elevation was 3,552.29 feet. The project is 7.71 feet from full (drafted 1.5 feet since last week) and is targeting a 20-foot draft by the end of September. The reservoir is projected to hit the 20-foot draft with dry conditions, and slightly above that with normal or above average precipitation through the end of September. Stream flows at Columbia Falls yesterday were 5,300 cfs, and Flathead Lake is at full pool.
- **Grand Coulee (GCL):** yesterdays' inflows were 91,800 cfs with a weekly average of 84% of normal. Outflows were 102,600 cfs and the midnight elevation was 1,283.5 feet (6.5 feet from full). The project is operating to meet downstream flow objectives while targeting the August 31 draft requirement of 1,277 feet.

Aaron Marshall, Corps, reported on Corps of Engineers projects:

- **Libby (LIB):** midnight elevation was 2,454.4 feet, with inflows of 5.7 kcfs and outflows of 8 kcfs; the project is drafting to meet the end of September elevation target of 2,449 feet.
- **Albeni Falls (ALF):** midnight elevation was 2,061.96 feet, with inflows of 6.8 kcfs and outflows of 9 kcfs.
- **DWR:** midnight elevation was 1,556.0 feet, with inflows of 1.1 kcfs and outflows of 10.6 kcfs; the project is ramping down to 9 kcfs later today, as noted earlier.
- **LWG:** midnight elevation was 733.3 feet, with inflows of 27 kcfs and outflows of 21 kcfs; the project is operating in normal MOP range through August 31.
- **McNary (MCN):** midnight elevation was 339.5 feet, with inflows of 121 kcfs and outflows of 130 kcfs; the project is operating at 0.5-foot from full.
- **Bonneville (BON):** midnight elevation was 74.3 feet, with inflows of 117 kcfs and outflows of 120 kcfs.

Aaron noted that MOP operations for the lower three Snake River projects end tonight at midnight, so starting tomorrow, Little Goose (LGS), Lower Monumental (LMN) and Ice Harbor (IHR) will return to their normal forebay operating range. Details describing lower Snake River project operating ranges can be found in the Fish Operations Plan (FOP) on pages 14-15. In response to a query, he also noted that LIB plans to hold outflows at 8 kcfs until further notice. Depending on inflows in next several weeks, there is a chance it could decrease down to 7 kcfs. The bull trout minimum this year is 6 kcfs starting in September.

Water Quality: Dan Turner, Corps, reported a couple exceedances of the water quality standard (WQS). The John Day (JDA) forebay gauge had an erroneous value yesterday due to a transmitting issue. This is being fixed and should clear up soon. Additionally, there have been 3 recorded values that exceeded the 120% in the MCN tailwater; forced spill at the project due to work on the turbines has led to less powerhouse capacity than normal and therefore WQS exceedances. Dan confirmed that the correct spill pattern is being used at the project.

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Fish: Kelsey Swieca, NOAA, reported that sub-yearling Chinook passage is similar to last week; averaging roughly 800/day at LWG, half that at BON. Fall Chinook adults continue to enter the system, with about 900/day at BON over the past week and about 200/day entering the Snake at ICH. Steelhead counts are slightly down at BON compared to last week, although remain relatively high. Both Chinook and steelhead passage are expected to pick up near the end of the month. Sockeye passage at BON has decreased to low double or single digits in ladder counts.

Dave Swank, USFWS, reported that the adult lamprey run continues to be below average at BON; total daytime window count to date is 20,747, or 55% of the 10-year average. He noted that the Washington Shore window count is running below average this year, but the LPS use is pretty good. It also appears that collection at the new BON B branch trap for the Tribal translocation program has been very high; Dave noted that these numbers are not included in the 20,747 listed on the FPC website. He summarized that with this year's run 70-80% over, it will likely still be below average, although perhaps not as low as the FPC suggests.

Power System: Tony Norris, BPA, reported that inflows are low as is typical this time of year, and that regional energy demand is lower due to the cooler weather.

Questions and Comments from Members of the Public: There were no questions or comments from members of the public.

The next scheduled TMT meeting is on August 21, 2024, at 9:00 AM.

**Columbia River Regional Forum
Technical Management Team
OFFICIAL MINUTES
Wednesday, August 14, 2024
Minutes: Andrea Ausmus, BPA (contractor, CorSource Technology Group)**

Today's TMT meeting was held via conference call and webinar, chaired by Doug Baus, Corps, and facilitated by Nancy Pionk, DS Consulting. A list of today's attendees is available at the end of these minutes.

1. Review Summaries and Minutes

a. Draft Summary & Minutes for August 7

- Comments were received.
- Summary and Minutes were approved.

2. Dworshak (DWR) Temperature Augmentation Update – Willow Walker, Corps-NWW

a. NOAA NWS Climate Data – Lewiston, ID

- Temperatures experienced in the last week have been closer to the normal temperature range.
 - Hottest temperature on August 13 was well within the normal band and there were even some cold nighttime temperatures.

b. DWR Current Hourly Data

- Releasing: 10.1 kcfs
 - Decreasing releases throughout the day.
 - End around 9 kcfs which is below full powerhouse capacity and no spill.

c. Snake and Clearwater Rivers Temperature Data

- Anatone (Snake River) and Orofino (Clearwater Mainstem) temperatures have been ranging from lower-70s to upper- 60s.
 - A week ago, those temperatures were high- to mid-70s, this is helping with Lower Granite (LWG) temperatures.

d. Lower Granite Forebay Temperature String

- With the relaxed 69.5°F criteria in the tailwater the stratification band fell below the 15/20m mark.
- Moving forward in time the stratification was able to move back up.

- As of today, August 14, it has been able to move back to the 15/20m mark and is even cooling the 15m waters. This is exactly what was wanted to be seen for recovering the river temperatures from the operation and moving into Doble testing.
- e. 10-Day Regional Forecast (Aug 14 – 23)
- No high temperatures are forecasted in the near future.
 - Light precipitation forecasted as soon as Thursday, August 15, and more later in the week.
 - There is some ~90°F weather forecasted but nothing above 100°F in the forecast right now. There is finally a break from the endless heat of this summer.
- f. Weather Forecast for Lewiston, ID
- Fluctuating between mid-80s and low-90s.
 - Not seeing anything in the 100°F range forecasted yet.
- g. Temperature Model Run Results – updated August 13 @ 8:10am
- Anatone and Orofino water temperatures started to fall off yesterday, August 13, as the cool weather moved in.
 - Moving forward for the projected temperatures in LWG tailwater, the Corps is expected to be able to manage at or below 68°F.
 - The cooler water is a huge relief.
 - The LWG Doble testing window is August 12 – 16.
 - The Corps sent spill, so that is the increase in DWR discharge.
 - They have now turned off spill at DWR because they send water three days in advance.
 - With the cooler weather the 9 kcfs, below powerhouse no spill, will be enough to maintain below the 68°F mark.
- h. Final DWR Water Supply Outlook Update – posted August 14 @ 8:30am
- Prior to the relaxed criteria operation there was only three days of spill available which was to be used for the Doble testing.
 - There was no additional spill available to cover in case of a heat wave, outage, or other event.
 - Because of the operation, we were able to save 2.5 days of spill from DWR to be able to use for the remainder of August.

Kelsey Swieca, (NMFS/FPAC Chair) asked Walker for an update of the status of Doble testing at LWG. She said that she knew that it would probably not come from Walker but

asked for whoever was available that could speak to it the Salmon Managers (SM) would appreciate it.

Walker said that Rich Hilt is out. She said that she believed that he was doing most of the coordination. She said that Baus could give an overview update and then if there are any questions specific to operations as it relates to that Walker said that she would be happy to jump in.

Baus said that as noted Doble testing was scheduled to occur this week. He said unfortunately when they started to get into the Doble testing, they discovered some unplanned issues associated with Unit 5, the station service unit. He said because of those unforeseen and unplanned issues they were unable to actually execute the Doble testing as originally planned. Having said that, Baus said that the project has continued to use the line outage to conduct some important maintenance that needed to occur during this time, but also recognized the importance of the water and that water had already been delivered and therefore the Corps acknowledged that we would adhere to the current schedule for Doble testing that had been coordinated. That was to occur this week, the line outage is still occurring this week, the hope is that it will be wrapped up Thursday (August 15) but it may go into Friday (August 16). The plan is to continue the similar operation that would have occurred for Doble testing had the unplanned issue not arisen. He asked Swieca if she would like any more information.

Swieca said that was sufficient of an update for the relationship between the Doble testing and the DWR outflow. She asked if we were going to have to attempt to perform the Doble testing at a later point in the season, or what we should expect for the future for the Doble test.

Baus said that was a great question. He said that he would have to get back to her on that. He said that he had a similar thought, and he did not know. Baus said that he would get back to her regarding what the thoughts are of the next steps for Doble testing at LWG since it did not occur.

Rich Hilt, Corps, said that the latest that he heard is that they are not going to attempt to do the Doble testing but that there are a lot of things going on right now and that was the word that he had gotten and hopefully it is accurate. Hilt said at this point he does not believe that we are going to try to reschedule, it is just going to be missed maintenance.

Charles Morrill, WA, said that he appreciated that input from Hilt, but that he thought that Doble testing was required. He said that he appreciated the update, but it was his understanding that Doble testing was required so just a question.

Hilt said that it is required to change the oil in your car too, but if your car breaks down and you can't get it to the shop... that is where we are right now.

Morrill said that he understood but he would have anticipated that the Corps to look at a September date. He said that he appreciated the update because when they have asked about rescheduling in the past it has always been "well we need to get this done". Morrill said that he appreciates what is going on, understands it, and thanked Hilt for the feedback. He said that he would be sure to check his oil level on his car today.

Hilt said that was his take on it too, and he recognizes that it is important, but if they are unable to do it that is where they are at. He said that they would like to do it, but he does not know that they are going to be able to.

Morrill said understood, definitely not in this time period. He said that the question remains, is there an opportunity in September that the Corps would like to look at.

Erik Van Dyke, OR, said that there was a lot of coordination up to this point. He said that rather than talk or ask about those details, the point he would like to ask is where SM are going to go to understand what had replaced the Doble testing. He asked Baus if it will be an FPOM topic or if it will be documented in some way.

Baus said that he was not sure where to go from here. He said that he felt that the information that the Corps has at this time is: *Unforeseen circumstances precluded the ability to do Doble testing at LWG at this time*. He said as was noted it is his understanding that they do not plan on doing Doble testing at this time, and he is not sure what/if there is additional information that Van Dyke would like as far as conversation.

Van Dyke said that the question was focused on where the details of this modification will be in the record. He said that it sounds like TMT notes will say something but will not get to what replaced the Doble testing and all the other details. He said that he is just trying to make sure that he understands how the SM will inform themselves on the details of how the Corps replaced Doble testing with some other actions and what those were.

Baus said that they did have additional details that they could share at this TMT meeting if that would be helpful. Baus said that the trick with the incident that transpired is just the timing, it was maintenance that was supposed to occur this week. It was just a late breaking issue and so it was the timeliness of the unforeseen situation. He said that as TMT knows the Corps coordinate Doble testing well in advance through the Fish Passage Plan in Appendix A, that time series occurs over the winter months. He said the change was just a late and breaking issues and that is why the Corps is giving the update now in real-time. He said that he would be happy to give more details if TMT would like more details regarding what is actually occurring if they would like that, he could share that.

Van Dyke said that he would like that now if Baus is able to share it and make sure that it is written down somewhere. He would like to know how much coordination had occurred to achieve the Doble testing activities and the changes that have occurred because of whatever reason. He said that it is important to know and be able to go back to where that is. He said that Baus will be able to tell them and that will be fine.

- Baus said that there were issues associated with providing station service.
 - Doble testing will not be done.
 - However, there were additional roof repairs, insulator cleaning, and additional monitoring for the installation of T1 and T2 oil monitoring equipment that needed to be done.
 - These issues were addressed during the coordinated outage in lieu of Doble testing.

- The Corps also wanted to be responsive to the Water Management issues associated with DWR and the desire was to stay within the existing times and dates of the line outage at LWG.

Pionk said that Baus mentioned when he first talked about this topic that the water was already on its way. She asked if there is anything on timing of discovering this issue that would be helpful to TMT.

Baus said that he wanted to highlight that real-time is difficult when you have water delivered to DWR as it takes about three days to get to LWG. So, when you have an unforeseen event that happens within that three-day window it can make pivoting and adapting challenging because the water is already on its way. When things happen within a given day for example, but you have already budgeted three days out for an operational need it is challenging.

Tony Norris, BPA, asked Hilt if the work that LWG is doing now was already scheduled to be coincident with the other work that required the Doble testing so that they could minimize the PH outages to get all the work done.

Hilt said that was correct.

Swieca said that she had some follow up questions. She said that it was great that Baus was able to provide the details that he was about to give to be captured in the TMT notes but she thought that what Van Dyke was asking if the Corps anticipates that they will issue an MFR (or MOC) or if this will be an agenda topic at FPOM. She asked if there will be anywhere else that the SM should expect to receive details about it. She said that NMFS is also interesting in confirming that the ladder cooling pumps at LWG are still operational.

Baus said the question one response would be that he would have to get back to Swieca, he would need to reach out to Walla Walla District regarding what is the COE plan for any additional documentation associated with LWG in addition to today's meeting. Baus responded to Swieca's second question saying that he was not aware, he had not heard of any concerns or issues but he will look into it and get back to her on both those topics today.

Elizabeth Holdren, Corps, said that those pumps are operating.

Van Dyke said that the conversation is very appreciated, especially the details that came out after folks started to talk more. He said that he would be interested to know more about how station service relates to how some of the other functions are occurring at the dam like the water cooling pumps, but it does not need to be done at this TMT meeting.

Chris Peery, Corps, said that they had the MOC that came out to coordinate the outage so the Corps can either provide an after action in the MOC or they can provide an MFR that outlines what actually did happen during the outage. He said that either is doable, it would depend on what people prefer.

Swieca said that she does not have a strong preference but based on how Peery described it, it sounds like an MFR may be more appropriate.

Peery said that they can put that together and get it out for FPOM. He said that he will work with Holdren and it will probably take a day or two.

Pionk said great way to get documentation on this and making sure that the details are clear.

3. Operations Review

a. Reservoirs

Reclamation – Corinne Horner

- Hungry Horse Dam
 - Inflows (3-day average): 550 cfs
 - 66% of normal
 - Temperatures are forecasted to be near normal with a chance of precipitation over the weekend.
 - Outflows: 3.2 kcfs
 - Midnight elevation: 3252.29 feet
 - Feet from Full: 7.71 feet
 - Drafted from last week: 1.5 feet
 - Operations: Targeting 20-foot draft by end of September
 - Projected to hit with dry conditions
 - Projected to be slightly above if normal or above normal precipitation over August and September.
 - Columbia Falls
 - Stream flows: 5300 cfs
 - Flathead Lake: Full Pool
- Grand Coulee Dam
 - Inflows (August 13): 91.8 kcfs
 - 84% of normal
 - Outflows: 102.6 kcfs
 - Midnight elevation: 1283.5 feet
 - Feet from Full: 6.5 feet
 - Operations: Operating to meet downstream objectives while also targeting the August 31 draft requirement.
 - August 31: 1277 feet

Corps – Aaron Marshall

- Libby Dam (Lake Koocanusa)
 - Current elevation: 2454.4 feet
 - Avg. Inflows (August 13): 5.7 kcfs
 - Avg. Outflows: 8 kcfs
 - Operation: Drafting to meet End of September Target.
 - Target: 2449 feet
- Albeni Falls (Lake Pend Oreille)
 - Midnight elevation: 2061.96 feet
 - Avg. Inflows: 6.8 kcfs
 - Avg. Outflows: 9 kcfs
- Dworshak Dam
 - Forebay elevation: 1556.0 feet
 - Avg. Inflows: 1.1 kcfs
 - Avg. Outflows: 10.6 kcfs
 - Operation: Ramping down to 9 kcfs later today.
- Lower Granite Dam
 - Avg. Forebay elevation: 733.3 feet
 - Avg. Inflows: 27 kcfs
 - Avg. Outflows: 21 kcfs
- MOP Operations
 - LWG is operating in its normal MOP operation range through August 31.
 - For LGS, LMN, and IHR MOP Operations end tonight at midnight. Starting tomorrow for the lower three Lower Snake projects they will return to their normal operating range.
- McNary Dam
 - Avg. Forebay elevation: 339.5 feet
 - Avg. Inflows: 121 kcfs
 - Avg. Outflows: 130 kcfs
 - Operation: Operating at 0.5 foot from full.
- Bonneville Dam
 - Avg. Forebay elevation: 74.3 feet
 - Avg. Inflows: 117 kcfs
 - Avg. Outflows: 120 kcfs

Dave Swank, USFWS, asked Marshall about LIB. He asked if the planned outflows at LIB are going to stay at 8 kcfs through September. He said that he knew that we had a

higher inflow than was initially projected and he was wondering if there were any updates on that.

Marshall said that the current plan is to hold LIB outflows at 8 kcfs until further notice, but we will have to see what inflows turn out to be over the next several weeks. He said that there is a chance that LIB inflows could decrease down to 7 kcfs. Marshall said that they are showing on their latest FTP forecast that at some point before the end of September we will have to reduce to 7 kcfs, which is the Bull Trout minimum for this year but that will depend on how inflows shake out over the next several weeks.

Norris said that the Bull Trout minimum for September is 6 kcfs.

Marshall said correct, starting in September.

Van Dyke said that he was trying to remember the document that it describes returning to full operating pool for the lower three Snake River dams. He asked if Aaron could help remind him where it is written down.

Marshall said that it is in the Fish Operations Plan.

Van Dyke said the FOP currently said that the Corps will go to full operation flexibility at the three Lower Snake River dams.

Marshall said yes. He said that he did not recall which page it is in the FOP but it is included indicating the dates and forebay ranges for the four Lower.

| *from Kelsey Swieca to everyone: 9:37 AM*

| *FOP pg 14-15*

| *from Colby Mills, DS Consulting to everyone: 9:37 AM*

| *Thanks Kelsey!*

Norris said minus any navigation adjustments that are necessary to maintain safety.

Van Dyke said that the full range allows you to go to the full pool mark as well is what he understood.

Norris said that was correct.

Van Dyke said that in the past was an operation change that had occurred closer September 1 than the middle of August so he was just wanting to make sure that he understood where it was written down. He asked if Marshall knew if it was also in the Agreement language.

Marshall said that it was.

Van Dyke said that he will go back and review those.

b. Water Quality – *Dan Turner, Corps*

- TDG
 - Exceedance at John Day (JDY) Forebay gauge.

- Value of 384% TDG was erroneous an value.
- They have been having transmission issues from that gauge. That was one hour of bad data.
- Fixing it in the database and should be cleared soon.
- McNary (MCPW)
 - There has been forced spill and work on turbines.
 - Less PH capacity than normal.
 - When spill gets above ~45 kcfs that is when there are exceedances of 120% TDG.

Van Dyke said that the plan was to use just the top spill weirs at McNary. He asked if Turner knew if the spill patterns in the Fish Passage Plan are being utilized at this time or are there other reasons that we might see this.

Turner said that they have confirmed that the correct spill pattern is being used.

Pionk asked if Van Dyke had a follow up.

Van Dyke said that he had not been tracking this detail. He said that he would go and look back. He said that he does not have a question after that response at this point.

| *from Erick Van Dyke to everyone: 9:41 AM*

| https://pweb.crohms.org/tmt/documents/ops/spillbay/MCN_2024_08_f.html

| *from Erick Van Dyke to everyone: 9:42 AM*

| *Is this data the actual hour spillbay use in August?*

| *from Daniel Turner to everyone: 9:43 AM*

| *Yes*

| *from Erick Van Dyke to everyone: 9:44 AM*

| *Which table in McNary chapter of the FPP is being used in August?*

| *from Daniel Turner to everyone: 9:45 AM*

| *Table MCN-8-ALT*

| *from Erick Van Dyke to everyone: 9:46 AM*

| *first on is bay 17, but not seeing that is the hourly records pattern.*

c. Fish

Salmon – Kelsey Swieca, NOAA

- Juveniles
 - Subyearling Chinook (averaging)

- Similar to last
- Lower Granite: ~800 per day
- Bonneville: ~400 per day
- Adult Salmon Counts
 - Fall Chinook
 - Bonneville (entering the System)
 - ~900 per day
 - ICH (entering the Snake)
 - ~200 per day
 - Steelhead
 - Bonneville passage is slightly down from last week.
 - Expect the passage into the Snake River to pick up near the end of the month.
 - Sockeye
 - Bonneville has dwindled to low double digits or single digits.

Lamprey – Dave Swank, USFWS

- Adult
 - Over the past few months, we are having a below average lamprey run.
 - Daytime Window Count (TD): ~20,747
 - 50% of ten-year average
 - Daytime Window Count (2023): ~60,000
 - Notes (incl. recent data sent from the Corps):
 - It appears that the Washington Shore window count is running below average this year.
 - Washington Shore LPS (lamprey passage system) use is pretty good.
 - Tribal collection for the translocation program at the new Bonneville B branch trap is very high, higher than anticipated.
 - These numbers are not included in FPC website count.
 - Swank thinks that though it will still be a low year for a lamprey run it is possible that the counts may not be as low as the FPC number suggests. Will see in a month or so.

d. Power System – *Tony Norris, BPA*

- Flows are low as is typical for this time of year.
- Cool weather has lowered the regional power demand.

4. Set agenda for next meeting – August 21, 2024

a. Dworshak Update

Today's Attendees:

Agency	TMT Representative(s)
NOAA Fisheries	Kelsey Swieca, Trevor Conder
Oregon	Erick Van Dyke
Washington	Charles Morrill
Kootenai Tribe	
Colville Tribe	Dennis Moore
Umatilla Tribe	
Yakama Nation	Keely Murdoch
Bureau of Reclamation	
Army Corps of Engineers	Doug Baus (Chair), Lisa Wright, Aaron Marshall
US Fish & Wildlife Service	Dave Swank
Idaho	
Montana	Brian Marotz
Spokane Tribe	
Nez Perce Tribe	
Warm Springs Tribe	
Confederated Salish and Kootenai Tribes	Tom McDonald
BPA	Tony Norris

Other Attendees (non-TMT members):

COE – Dan Turner, Tom Conning, Willow Walker, Jessika Solleder, Eric Chow, Chris Peery, Elizabeth Holdren, Richard Hilt

BOR – Corinne Horner

BPA – Tammy Mackey

DS Consulting – Nancy Pionk (Facilitator), Colby Mills

CorSource – Andrea Ausmus (BPA note taker, Contractor)

Clearing Up – K.C. Mehaffey

Columbia Basin Bulletin – Mike O'Bryant