

**COLUMBIA RIVER TECHNICAL MANAGEMENT TEAM**

November 28, 2018

Facilitator's Summary

Facilitator: Emily Stranz; Notes: 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. These notes are not intended to be the "record" of the meeting, only a reminder for TMT members. Official minutes can be found on the TMT website: <http://www.nwd-wc.usace.army.mil/tmt/agendas/2018/>*

**Chum Operation**

Doug Baus, Corps, updated the TMT on the chum operation that was coordinated during the November 13<sup>th</sup> TMT meeting. The steps of the operation are posted to today's agenda. At Bonneville, the current total outflow is 121.9 kcfs, and the project tailwater elevation is 11.5 ft. Project inflows are forecast to range from 120 down to 115kcfs, with continued similar flows over the next 10-day period.

Current forecasts for the Columbia Basin are looking dry, with up to 25%-50% below average precipitation over the next 5-10 days. Climate forecasts over the next 6-10 days show a probability of below average temperatures and precipitation, with a probability of above average precipitation 8-14 days out. The increased precipitation should help with the chum operation and hopefully decrease augmentation needed from Grand Coulee. Looking ahead at the 30-day outlook, forecasts show probability of above average temperatures, while precipitation shows equal chance of being below or above normal at this time.

Tony Norris, BPA, reported that 355 chum were counted yesterday (Nov. 26), and that teams are out marking redds today. Paul Wagner, NOAA, reported that the cumulative passage at Bonneville Dam is 163 to date, with 41 passing yesterday.

Tony also noted that the USGS gauge at Hamilton Creek would be helpful to add as a link on the meeting agendas so that TMT can track it. Tony shared that the recent rains have re-watered Hamilton Creek.

**The next scheduled TMT meeting is a conference call on December 12, 2018, at 9:00 AM;  
Meeting minutes/summaries will be finalized at this meeting.**

The TMT Year End Review is planned for December 5, 2018 in Portland. If interested in attending, please RSVP by December 3<sup>rd</sup> to Colby Mills ([colby@dsconsult.co](mailto:colby@dsconsult.co))

*This summary is respectfully submitted by the DS Consulting Facilitation Team. Suggested edits are welcome and can be sent to Colby at [colby@dsconsult.co](mailto:colby@dsconsult.co).*

**Columbia River Regional Forum**

**TECHNICAL MANAGEMENT TEAM OFFICIAL MINUTES**

**November 28, 2018**

**Minutes: Melissa Haskin, FLUX Resources**

**1. Introduction**

Representatives of NOAA, Corps, BPA, and others participated in today’s TMT meeting chaired by Doug Baus, Corps, and facilitated by Emily Stranz, DS Consulting. See the end of these minutes for a list of attendees.

**2. Chum Operations**

Doug Baus, Corps, updated TMT on Chum Operations. A full explanation of the operation is available on the TMT website. The Corps and BPA continue to implement the TMT-coordinated chum operation that was coordinated during November 13 TMT meeting.

Total outflow at Bonneville was 121.9 kcfs at 0700 this morning and the tailwater elevation was 11.5 feet. The forecast calls for inflows of 115-120 kcfs over the next 10 days. The NWRFC forecast indicates the Columbia Basin should experience below average precipitation over the next 10 days. Conditions are looking dry and there is a probability of below average temperatures. The 8-14 day forecast calls for below average temperatures and precipitation above average. The 30-day forecast calls for equal chance of below or above average precipitation.

Tony Norris, BPA, noted that redds are being counted today and chum counts were at 355 yesterday.

Paul Wagner, NOAA, noted that cumulative passage at Bonneville is 163 to-date with 41 passing yesterday. He noted FPC counts are not up-to-date but that passage is reasonable so far.

**3. Next TMT.** The next TMT meeting is a year-end review on December 4, 2018, at 9 a.m. at CRITFC office in Portland, OR.

**Today’s Attendees:**

**TMT Members:**

<b>Agency</b>	<b>TMT Representative</b>
Army Corps of Engineers	Doug Baus (Chair), Julie Ammann
Bonneville Power Administration	Tony Norris
Bureau of Reclamation	Joel Fenolio
NOAA Fisheries	Paul Wagner
US Fish & Wildlife Service	N/A
Washington	N/A
Oregon	N/A

<b>Agency</b>	<b>TMT Representative</b>
Idaho	N/A
Montana	N/A
Nez Perce Tribe	N/A
Umatilla Tribe	N/A
Colville Tribe	N/A
Warm Springs Tribe	N/A
Kootenai Tribe	N/A
Spokane Tribe	N/A

**Other Attendees (non-TMT members):**

Corps – Steve Hall, Laura Hamilton  
DS Consulting – Emily Stranz (Facilitator), Colby Mills  
FLUX Resources – Melissa Haskin (Note taker)  
Snohomish PUD – Bryan Zigler  
Clearing Up – K.C. Mehaffey  
Public (no affiliation) – Charles Pace  
Portland General Electric – Ruth Burris  
Columbia Basin Bulletin – Mike O’Bryant