

COLUMBIA RIVER TECHNICAL MANAGEMENT TEAM

August 26, 2015

Facilitator's Summary

Facilitator: Emily Plummer; Notes: Tory Hines, 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.

Dworshak/Lower Granite Water Temperature

Steve Hall, COE-Walla Walla, updated TMT on Dworshak and Lower Granite water temperatures. He noted that water temperatures are currently around 66 degrees Fahrenheit and temperatures are expected to cool off in the coming weeks due to shorter days and a decrease in solar radiation due to wildfire smoke in the air. Current modeling does not show any exceedances through the end of the month. Dave Statler, Nez Perce, noted it was his understanding that the end of August target elevation for Dworshak was modified per Dworshak Board's Operational Plan, to 1,534ft rather than 1,535ft. Doug Baus, COE-NWD agreed with Dave Statler and reiterated per the Dworshak Board Operational Plan the Action Agencies will draft Dworshak to 1534ft. by the end of August. Steve noted that in order to reach 1,534ft by the end of August, the project would increase discharge to around 5.7kcfs through the remainder of August and into September.

The Action Agencies will implement the Board's Operational Plan included below.

- 1) On or about August 31st, Dworshak will be drafted to approximately elevation 1534 ft and discharge is expected to be approximately 5.7 kcfs.
- 2) On September 1st, maintain discharge of approximately 5.7 kcfs.
- 3) On September 15th, reduce discharge to approximately 4.6 kcfs.
- 4) On about September 19th, reduce discharge to approximately 2.4 kcfs.
- 5) Reduce to minimum outflow about 1.5 kcfs when reservoir pool draft to elevation 1520 ft forecasted to be approximately September 22nd, however, this depends on inflows.

Paul Wagner, NOAA, stated that the modification request will help conditions at the Lower Granite reservoir by maintaining a steady discharge, cooling off forebay temperatures, and improving conditions for the adult trap. Steve also noted that BPA transmission submitted a consideration to operate Unit 1 which may make it difficult to drop flows to 5.7kcfs; the current modeling at 5.7kcfs is based on operating Unit 3 only. The Corps will do additional analysis and request clarification from BPA on the unit preference, regardless, the project expects to be able to discharge approximately 5.5kcfs.

- **ACTION:** Dworshak will hold discharge between 5.5-5.7kcfs until the end of August to reach the modified target elevation of 1,534ft. For the month of September the Action Agencies will implement the Board's Operational Plan as specified above.

The next TMT meeting will be a conference call on September 2nd at 9:00AM.

Columbia River Regional Forum
TECHNICAL MANAGEMENT TEAM MEETING—OFFICIAL MINUTES

August 26, 2015
Minutes: Pat Vivian

Representatives of Montana, Idaho, USFWS, BPA, BOR, COE, NOAA, Nez Perce Tribe and others participated in today's TMT conference call. Doug Baus, COE, chaired the meeting, with facilitation by Emily Plummer, DS Consulting. The summary is an official record of the discussion, not a verbatim transcript.

2. Dworshak/Lower Granite Water Temperature

Steve Hall, COE, reported. Smoke from forest fires in the Walla Walla area coupled with cooler weather have brought Lower Granite tailwater temperatures down to a little above 66 degrees F. Recent temperatures were close to the 68 degree trigger, but the COE expects Lower Granite to remain cool due to shorter days and less solar radiation.

Over the weekend, releases went up to 5.7 kcfs, and are now down to 4.8 kcfs. The latest water temperature modeling results indicate that 4.8 kcfs releases through the end of the month will not result in any temperature exceedances at Lower Granite.

The Corps will target 1534 ft rather than 1535 ft end of August based on the Dworshak Board's Operational Plan (Plan). Steve noted that in order to reach 1534 ft by the end of August, the project would increase discharge to around 5.7 kcfs today through the remainder of August and into September. Additional details regarding the Plan are included below.

1. On or about August 31st Dworshak will be drafted to approximately elevation 1534 ft. and discharge is expected to be approximately 5.7 kcfs.
2. On September 1st, maintain discharge of approximately 5.7 kcfs.
3. On September 15th, reduce discharge to approximately 4.6 kcfs.
4. On about September 19th reduce discharge to approximately 2.4 kcfs.
5. Reduce to minimum outflow about 1.5 kcfs when reservoir pool draft to elevation 1520 ft forecasted to be approximately September 22nd, however, this depends on inflows.

This operation will also help with other conditions in Lower Granite reservoir, Paul Wagner, NOAA, clarified. It will provide more certainty of cooler forebay conditions, which benefits trap operations. Warm forebay temperatures in recent days have been limiting use of the adult trap.

Hall noted that a generation consideration for BPA transmission is currently requiring operation of Dworshak unit 1. This could impact the COE's ability to stabilize releases at 5.7 kcfs because 5.7 kcfs requires operation of unit 3 only. Until the COE gets clarification on the transmission requirement to run unit 1, they will commit to approximately 5.5 kcfs releases from Dworshak. The COE will update TMT on this at the next meeting September 2.

Next TMT Meeting

TMT will meet next in a conference call on September 2.

<i>Name</i>	<i>Affiliation</i>
Jim Litchfield	Montana
Russ Kiefer	Idaho
Joe Skalicky	USFWS
Tony Norris	BPA
Mary Mellema	BOR
Doug Baus	COE
Paul Wagner	NOAA
Steve Hall	COE
Karl Kanbergs	
Michelle Yuen	COE
Julie Ammann	COE
Shane Scott	PPC
XX	CBB
Tory Hines	DSC
Margaret Filardo	FPC
Scott Bettin	BPA
Mike Shafley	Snohomish PUD
Ruth Burris	PGE
Chris Jilco	Jenscape
Dave Statler	Nez Perce